al Number: Edited by:	.	CRF Errors Corrected by the STIC Systems Branch
Changed the margins in cases where the sequence text was "wrapped" down to the left of the Current Application Data section, specifically: Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Inserted a space between the last nucleic designator and the nucleic number for sequences: Deleted page numbers in the text of the sequence listing, which is considered invalid text. Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted a nucleic number at the end of a nucleic line. SEQ ID NO's edited: SEQUENCE LIFT Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.	l Nu	mber: 68/206, 176 CRF Processing Date: 3/23/94 Edited by: MAN
Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Inserted a space between the last nucleic designator and the nucleic number for sequences: Deleted page numbers in the text of the sequence listing, which is considered invalid text. Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheadings, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted non-ASCII "garbage" at the end of files, and other invalid text, such as a secretary's initials. Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.	C	
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Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Inserted a space between the last nucleic designator and the nucleic number for sequences: Deleted page numbers in the text of the sequence listing, which is considered invalid text. Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Sequence 1. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted non-ASCII "garbage" at the end of files, and other invalid text, such as a secretary's initials. Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.	E	dited a format error in the Current Application Data section, specifically:
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	(Corrected an error in the Number of Sequences field, specifically:
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*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

8/01/93

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PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/08/206,176

TIME: 15:00:21

DATE: 03/23/94

1		SEQUENCE LISTING
2 3	(1) G	eneral Information:
4 5 6 7 8 9	(i)	APPLICANT: Garner, Ian Dalrymple, Michael A Prunkard, Donna E Foster, Donald C
10 11 12	(ii)	TITLE OF INVENTION: Production of Fibrinogen in Transgenic Animals
13 14	(iii)	NUMBER OF SEQUENCES: 27
15 16 17 18 19 20 21	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: ZymoGenetics, Inc. (B) STREET: 4225 Roosevelt Way, N.E. (C) CITY: Seattle (D) STATE: WA (E) COUNTRY: USA (F) ZIP: 98105
22 23 24 25 26 27 28	(v)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
29 30 31 32 33	(vi)	CURRENT APPLICATION DATA: (A) APPLICATION NUMBER: (B) FILING DATE: (C) CLASSIFICATION:
34 35 36 37	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Parker, Gary E (B) REGISTRATION NUMBER: 31-648 (C) REFERENCE/DOCKET NUMBER: 93-15
38 39 40 41 42 43 44	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: 206-547-8080 ext 322 (B) TELEFAX: 206-548-2329
45 46	(2) INFO	RMATION FOR SEQ ID NO:1:
47 48 49 50	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 5943 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

RAW SEQUENCE LISTING PATENT APPLICATION US/08/206,176

DATE: 03/23/94 TIME: 15:00:27

52 53 54 55	(ii) MOLECULE TYPE: DNA (genomic)	
56 57 58	<pre>(vii) IMMEDIATE SOURCE: (B) CLONE: Human Fibrinogen A-alpha chain</pre>	
59 60 61 62 63	(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: join(3184, 11541279, 17391922, 305532 37865210)	00,
64 65 66	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
67 68 69 70	GTCTAGGAGC CAGCCCCACC CTTAGAAAAG ATG TTT TCC ATG AGG ATC GTC TGC Met Phe Ser Met Arg Ile Val Cys 1 5	54
71 72 73 74	CTA GTT CTA AGT GTG GTG GGC ACA GCA TGG GTATGGCCCT TTTCATTTTT Leu Val Leu Ser Val Val Gly Thr Ala Trp 10 15	104
75 76	TCTTCTTGCT TTCTCTCTGG TGTTTATTCC ACAAAGAGCC TGGAGGTCAG AGTCTACCTG	164
77 78	CTCTATGTCC TGACACACTC TTAGCTTTAT GACCCCAGGC CTGGGAGGAA ATTTCCTGGG	224
79 80	TGGGCTTGAC ACCTCAAGAA TACAGGGTAA TATGACACCA AGAGGAAGAT CTTAGATGGA	284
81 82	TGAGAGTGTA CAACTACAAG GGAAACTTTA GCATCTGTCA TTCAGTCTTA CCACATTTTG	344
83 84	TTTTGTTTTG TTTTAAAAAG GGCAAGAATT ATTTGCCATC CTTGTACCTA TAAAGCCTTG	404
85 86	GTGCATTATA ATGCTAGTTA ATGGAATAAA ACATTTTATG GTAAGATTTG TTTTCTTTAG	464
87 88	TTATTAATTT CTTGCTACTT GTCCATAATA AGCAGAACTT TTAGTGTTAG TACAGTTTTG	524
89 90	CTGAAAGGTT ATTGTTGTGT TTGTCAAGAC AGAAGAAAAA GCAAACGAAT TATCTTTGGA	584
90 91 92	AATATCTTTG CAGTATCAGA AGAGATTAGT TAGTAAGGCA ATACGCTTTT CCGCAGTAAT	644
93	GGTATTCTTT TAAATTATGA ATCCATCTCT AAAGGTTACA TAGAAACTTG AAGGAGAGAG	704
94 95	GAACATTCAG TTAAGATAGT CTAGGTTTTT CTACTGAAGC AGCAATTACA GGAGAAAGAG	764
96 97	CTCTACAGTA GTTTTCAACT TTCTGTCTGC AGTCATTAGT AAAAATGAAA AGGTAAAATT	824
98 99	TAACTGATTT TATAGATTCA AATAATTTTC CTTTTAGGAT GGATTCTTTA AAACTCCTAA	884
100 101 102	TATTTATCAA ATGCTTATTT AAGTGTCACA CACAGTTAAG AAATTTGTAC ACCTTGTCTC	944

RAW SEQUENCE LISTING PATENT APPLICATION US/08/206,176

DATE: 03/23/94 TIME: 15:00:32

103	CTTTAATTCT CATAACAACT CCATAAAATG GGTCCTAGGA TTTCCATTTG AAGATAAGAA	1004
104 105	ACCTGAAGCT TGCCGAAGCC CTGTGTCTGC TCTCCTTAAT CTCTGTGAGA GTGCCATCTC	1064
106 107	TTCCTGGGGA CTTGTAGGCA TGCCACTGTC TCCTCTTCTG GCTAACATTG CTGTTGCTCT	1124
108 109 110 111 112	CTTTTGTGTA TGTGAATGAA TCTTTAAAG ACT GCA GAT AGT GGT GAA GGT GAC Thr Ala Asp Ser Gly Glu Gly Asp 20 25	1177
113 114 115 116	TTT CTA GCT GAA GGA GGA GGC GTG CGT GGC CCA AGG GTT GTG GAA AGA Phe Leu Ala Glu Gly Gly Val Arg Gly Pro Arg Val Val Glu Arg 30 35 40	1225
117 118 119	CAT CAA TCT GCC TGC AAA GAT TCA GAC TGG CCC TTC TGC TCT GAT GAA His Gln Ser Ala Cys Lys Asp Ser Asp Trp Pro Phe Cys Ser Asp Glu 45 50 55	1273
120 121 122 123	GAC TGG GTAAGCAGTC AGCGGGGGAA GCAGGAGATT CCTTCCCTCT GATGCTAGAG Asp Trp 60	1329
124 125	GGGCTCACAG GCTGACCTGA TTGGTCCCAG AAACTTTTTT AAATAGAAAA TAATTGAATA	1389
126 127	GTTACCTACA TAGCAAATAA AGAAAAGGAA CCTACTCCCA AGAGCACTGT TTATTTACCT	1449
128 129	CCCCAACTCT GGATCATTAG TGGGTGAACA GACAGGATTT CAGTTGCATG CTCAGGCAAA	1509
130 131	ACCAGGCTCC TGAGTATTGT GGCCTCAATT TCCTGGCACC TATTTATGGC TAAGTGGACC	1569
132 133	CTCATTCCAG AGTTTCTCTG CGACCTCTAA CTAGTCCTCT TACCTACTTT TAAGCCAACT	1629
134 135	TATCTGGAAG AGAAAGGGTA GGAAGAAATG GGGGCTGCAT GGAAACATGC AAAATTATTC	1689
136 137 138 139 140	TGAATCTGAG AGATAGATCC TTACTGTAAT TTTCTCCCTT CACTTTCAG AAC TAC Asn Tyr	1744
141 142 143 144	AAA TGC CCT TCT GGC TGC AGG ATG AAA GGG TTG ATT GAT GAA GTC AAT Lys Cys Pro Ser Gly Cys Arg Met Lys Gly Leu Ile Asp Glu Val Asn 65 70 75	1792
145 146 147 148	CAA GAT TTT ACA AAC AGA ATA AAT AAG CTC AAA AAT TCA CTA TTT GAA Gln Asp Phe Thr Asn Arg Ile Asn Lys Leu Lys Asn Ser Leu Phe Glu 80 85 90	1840
149 150 151 152	TAT CAG AAG AAC AAT AAG GAT TCT CAT TCG TTG ACC ACT AAT ATA ATG Tyr Gln Lys Asn Asn Lys Asp Ser His Ser Leu Thr Thr Asn Ile Met 95 100 105 110	1888
153	GAA ATT TTG AGA GGC GAT TTT TCC TCA GCC AAT A GTAAGTATTA	1932

RAW SEQUENCE LISTING PATENT APPLICATION US/08/206,176

TIME: 15:00:38

DATE: 03/23/94

154 155	Glu Ile Leu Arg Gly Asp Phe Ser Ser Ala Asn 115 120	
156 157 158	CATATTTACT TCTTTGACTT TATAACAGAA ACAACAAAAA TCCTAAATAA ATATGATATC	1992
159 160	CGCTTATATC TATGACAATT TCATCCCAAA GTACTTAGTG TAGAAACACA TACCTTCATA	2052
161 162	ATATCCCTGA AAATTTTAAG AGGGAGCTTT TGTTTTCGTT ATTTTTTCAA AGTAAAAGAT	2112
163 164	GTTAACTGAG ATTGTTTAAG GTCACAAAAT AAGTCAGAAT TTTGGATTAA AACAAGAATT	2172
165 166	TAAATGTGTT CTTTTCAACA GTATATACTG AAAGTAGGAT GGGTCAGACT CTTTGAGTTG	2232
167 168	ATATTTTTGT TTCTGCTTTG TAAAGGTGAA AACTGAGAGG TCAAGGAACT TGTTCAAAGA	2292
169 170	CACAGAGCTG GGAATTCAAC TCCCAGACTC CACTGAGCTG ATTAGGTAGA TTTTTAAATT	2352
171 172	TAAAATATAG GGTCAAGCTA CGTCATTCTC ACAGTCTACT CATTAGGGTT AGGAAACATT	2412
173 174	GCATTCACTC TGGGCATGGA CAGCGAGTCT AGGGAGTCCT CAGTTTCTCA AGTTTTGCTT	2472
175 176	TGCCTTTTTA CACCTTCACA AACACTTGAC ATTTAAAATC AGTGATGCCA ACACTAGCTG	2532
177 178	GCAAGTGAGT GATCCTGTTG ACCCAAAACA GCTTAGGAAC CATTTCAAAT CTATAGAGTT	2592
179 180	AAAAAGAAAA GCTCATCAGT AAGAAAATCC AATATGTTCA AGTCCCTTGA TTAAGGATGT	2652
181 182	TATAAAATAA TTGAAATGCA ATCAAACCAA CTATTTTAAC TCCAAATTAC ACCTTTAAAA	2712
183 184	TTCCAAAGAA AGTTCTTCTT CTATATTTCT TTGGGATTAC TAATTGCTAT TAGGACATCT	2772
185 186 187	TAACTGGCAT TCATGGAAGG CTGCAGGGCA TAACATTATC CAAAAGTCAA ATGCCCCATA GGTTTTGAAC TCACAGATTA AACTGTAACC AAAATAAAAT	2832
188 189	TTTCTTTCTT TCTTTTTCT CTTTCTTTCT TTCTTTCTTT CTTTCTTTCT TTCTTTCTTT	2892
190 191	CTTTCTTTCT TTCTCCTTCC TTCCTTTCTT CCTTTCTTT TTGCTGGCAA TTACAGACAA	3012
192 193	ATCACTCAGC AGCTACTTCA ATAACCATAT TTTCGATTTC AG AC CGT GAT AAT	3065
194 195	Asn Arg Asp Asn 125	3003
196 197 198 199 200	ACC TAC AAC CGA GTG TCA GAG GAT CTG AGA AGC AGA ATT GAA GTC CTG Thr Tyr Asn Arg Val Ser Glu Asp Leu Arg Ser Arg Ile Glu Val Leu 130 135 140	3113
201 202 203 204	AAG CGC AAA GTC ATA GAA AAA GTA CAG CAT ATC CAG CTT CTG CAG AAA Lys Arg Lys Val Ile Glu Lys Val Gln His Ile Gln Leu Leu Gln Lys 145 150 155	3161

RAW SEQUENCE LISTING PATENT APPLICATION US/08/206,176

TIME: 15:00:43

DATE: 03/23/94

205 206	AAT GTT AGA GCT CAG TTG GTT GAT ATG AAA CGA CTG GAG GTAAGTATGT Asn Val Arg Ala Gln Leu Val Asp Met Lys Arg Leu Glu	3210
207	160 165 170	
208		
209 210	GGCTGTGGTC CCGAGTGTCC TTGTTTTGA GTAGAGGGAA AAGGAAGGCG ATAGTTATGC	3270
211 212	ACTGAGTGTC TACTATATGC AGAGAAAAGT GTTATATCCA TCATCTACCT AAAAGTAGGT	3330
213 214	ATTATTTTCC TCACTCCACA GTTGAAGAAA AAAAAATTCA GAGATATTAA GTAAATTTTC	3390
215	CAACGTACAT AGATAGTAAT TCAAAGCAAT GTTCAGTCCC TGTCTATTCC AAGCCATTAC	3450
216 217	ATCACCACAC CTCTGAGCCC TCAGCCTGAG TTCACCAAGG ATCATTTAAT TAGCGTTTCC	3510
218	menerale erelandee readering fracement Arealitan facelifie	3310
219 220	TTTGAGAGGG AATAGCACCT TACTCTTGAT CCATTCTGAG GCTAAGATGA ATTAAACAGC	3570
221	ATCCATTGCT TATCCTGGCT AGCCCTGCAA TACCCAACAT CTCTTCCACT GAGGGTGCTC	3630
222 223	GATAGGCAGA AAACAGAGAA TATTAAGTGG TAGGTCTCCG AGTCAAAAAA AATGAAACCA	3690
224	·	
225 226	GTTTCCAGAA GGAAAATTAA CTACCAGGAA CTCAATAGAC GTAGTTTATG TATTTGTATC	3750
227	TACATTTCT CTTTATTTT CTCCCCTCTC TCTAG GTG GAC ATT GAT ATT AAG	3803
228	Val Asp Ile Asp Ile Lys	3603
229	175	
230	173	
231	ATC CGA TCT TGT CGA GGG TCA TGC AGT AGG GCT TTA GCT CGT GAA GTA	3851
232	Ile Arg Ser Cys Arg Gly Ser Cys Ser Arg Ala Leu Ala Arg Glu Val	3031
233	180 185 190	
234		
235	GAT CTG AAG GAC TAT GAA GAT CAG CAG AAG CAA CTT GAA CAG GTC ATT	3899
236	Asp Leu Lys Asp Tyr Glu Asp Gln Gln Lys Gln Leu Glu Gln Val Ile	
237	195 200 205	
238		
239	GCC AAA GAC TTA CTT CCC TCT AGA GAT AGG CAA CAC TTA CCA CTG ATA	3947
240	Ala Lys Asp Leu Leu Pro Ser Arg Asp Arg Gln His Leu Pro Leu Ile	
241	210 215 220	
242		
243	AAA ATG AAA CCA GTT CCA GAC TTG GTT CCC GGA AAT TTT AAG AGC CAG	3995
244	Lys Met Lys Pro Val Pro Asp Leu Val Pro Gly Asn Phe Lys Ser Gln	
245	225 230 235 240	
246		
247	CTT CAG AAG GTA CCC CCA GAG TGG AAG GCA TTA ACA GAC ATG CCG CAG	4043
248	Leu Gln Lys Val Pro Pro Glu Trp Lys Ala Leu Thr Asp Met Pro Gln	
249	245 250 255	
250		
251	ATG AGA ATG GAG TTA GAG AGA CCT GGT GGA AAT GAG ATT ACT CGA GGA	4091
252	Met Arg Met Glu Leu Glu Arg Pro Gly Gly Asn Glu Ile Thr Arg Gly	
253	260 265 270	
254		
255	GGC TCC ACC TCT TAT GGA ACC GGA TCA GAG ACG GAA AGC CCC AGG AAC	4139

RAW SEQUENCE LISTING PATENT APPLICATION US/08/206,176

DATE: 03/23/94 TIME: 15:00:48

256 257	Gly	Ser	Thr 275	Ser	Tyr	Gly	Thr	Gly 280	Ser	Glu	Thr	Glu	Ser 285	Pro	Arg	Asn	
258 259 260 261 262					GGA Gly												4187
263 264 265 266					AAC Asn												4235
267 268 269 270					AGC Ser 325												4283
271 272 273 274					ACT Thr												4331
275 276 277 278					ACC Thr												4379
279 280 281 282					TGG Trp												4427
283 284 285 286					GAA Glu												4475
287 288 289 290					CCT Pro 405												4523
291 292 293 294					AGT Ser											AAA Lys	4571
295 296 297 298					AAA Lys												4619
299 300 301 302					AGC Ser												4667
302 303 304 305 306					GTT Val												4715

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307	GAA	GTG	GTG	ACC	TCC	GAA	GAT	GGT	TCT	GAC	TGT	CCC	GAG	GCA	ATG	GAT	4763
308	Glu	Val	Val	Thr	Ser	Glu	Asp	Gly	Ser	Asp	Cys	Pro	Glu	Ala	Met	Asp	
309					485					490					495		
310																	
311					TCT												4811
312	Leu	Gly	Thr		Ser	Gly	Ile	Gly		Leu	Asp	Gly	Phe	Arg	His	Arg	
313				500					505					510			
314																	
315					GCT												4859
316	His	Pro		Glu	Ala	Ala	Phe		Asp	Thr	Ala	Ser		Gly	Lys	Thr	
317			515					520					525				
318		~~-															
319													-			ACT	4907
320	Pne		СТУ	Pne	Phe	ser		Met	Leu	GTA	Glu		vaı	ser	GIU	Tnr	
321		530					535					540					
322	C7.C	mam	700	aaa	ma v	<i>(</i> 17,7	mam	000	3 M.C	mma	7 (7)	7 7 M	7 (7 7	220	~~~	таа	4055
323 324					TCA Ser												4955
325	545	ser	Arg	GIY	ser	550	ser	GLY	TTE	Pne	555	ASII	1111	ьуѕ	GIU	560	
325	343					550					222					360	
327	λСΤ	ሞርጥ	СУТ	CAC	CCT	ccc	מידימ	CCT	CAA	ጥጥር	ССТ	Trece	ССТ	сст	אאא	ጥርጥ	5003
328					Pro												2003
329	DCI	DCI	1115	1115	565	OLY	110	nia	GIU	570	110	DCI	n. g	Gry	575	DCI	
330					505					3,0					5,5		
331	TCA	AGT	TAC	AGC	AAA	CAA	ттт	АСТ	AGT	AGC	ACG	AGT	TAC	AAC	AGA	GGA	5051
332					Lys												3031
333	202		-1-	580	-1-				585				-] -	590		01 /	
334																	
335	GAC	TCC	ACA	TTT	GAA	AGC	AAG	AGC	TAT	AAA	ATG	GCA	GAT	GAG	GCC	GGA	5099
336					Glu												
337	-		595				-	600	-	-			605			4	
338																	
339	AGT	GAA	GCC	GAT	CAT	GAA	GGA	ACA	CAT	AGC	ACC	AAG	AGA	GGC	CAT	GCT	5147
340	Ser	Glu	Ala	Asp	His	Glu	Gly	Thr	His	Ser	Thr	Lys	Arg	Gly	His	Ala	
341		610					615					620					
342																	
343					GTC												5195
344	Lys	Ser	Arg	Pro	Val	Arg	Gly	Ile	His	Thr	Ser	Pro	Leu	Gly	Lys	Pro	
345	625					630					635					640	
346																	
347					TAG	ACTA	AGT :	'AAA	ratt.	rc ro	3CAC	AGTG:	r TC	CCAT	3GCC		5247
348	Ser	Leu	Ser	Pro													
349					645												
350	aam	naari	nmm 4	a camma	amm s a		amam,	amm s 4	7 7 7	ישרי	nma z	7. 7. CT	n a 🗸 a a	7mm ,	nmmer/	астопо	E202
351	CCT.	I GCA'	111 (JCTT(LTTA	AC TO	_TCT(2 T T A(. ACC	51 CA.	LIGA	AAC.	I ACA(-11 '	T T T T (GTCTG	5307
352 353	புரும்	ייייטייטיטי	יייטטיי	א כניא כיי	י עיייבאיז	אכן יייר	ויכיכישי	דים מים	י ככי	<i>י</i> מכים י	مصست	יויריםיי	ייייטיייייי	יייירי י	∧ m⇔m/	CTGTAT	5367
353 354	1 1"1".	1161	3C1 /	AGAC"	IGIA	3G T.	LCCT.	アイス・ファ	a GC	シジシシン	JUTT	TGT	_1GT(-10 /	AT CT	LIGIAT	536/
35 4 355	ጥ ርርር	ימממר	דמר י	י מ מיחיר	יים ביים	את אי	באינייי	יביית ער	<u>л</u> Сти	יית אמי	יית א	אריאי	րշատ։	י ת בל	ימבי זי	rgaatg	5427
356	100	-ran		~ T 1.71.7/	CAGIA	ZC M	JAGC	CAIG	- CI(-W-11	-1-1-1	ACA.	. G11/		ADD 1	TONNIG	J#4/
357	יידעע	רכים יי	TTC :	אאאריי	ימייטין	יידי ידין	אכיריי זאכיריי	ייד⊿ידי	ኮ ጥል/	ረ ጥር ል ፣	יייי ע	Сфф	דר בי	י ידעין	ኮሮል ል ፣	AGTGTG	5487
J.J.,		,	/		_ U				- 117								5107

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358															
359	TGCTATTA	GA ATT	STCACO	CC AA	ACTG	ATTA	A TC	ACATT	TTT	AGT	ATGT	GTC :	rcag:	TGACA	5547
360															
361	TTTAGGTC	AG GCT	AAATAC	CA AG	3TTGT	rgtt <i>i</i>	A GTA	ATTAI	AGTG	AGC'	TAG	CTA (CCTG'	PACTGG	5607
362															
363	TTACTTGC	TA TTA	3TTTGT	'G CA	AAGTA	AAAA'I	TCC	'AAA'	'ACA	TTTC	BAGGA	AAA A	ATCC	CCTTTG	5667
364	CA A ERREGE									m = m/		3ma .			5505
365	CAATTTGT	AG GTA	TAAATA	AA CC	JGCT".	[ATT]	GCA	ATAAC	FITC	TAT	CCAC	JTG :	l'AAG'.	IGCATC	5727
366	OTTO COOK		200220	101 3 3											5707
367	CTTTCCCT	AT GGA	JAAD	iG AF	AAGGA	AGGAA	A GAA	MGAA	AAGG	AAG	GAAA	AGA A	AACAC	HATT	5787
368 369	CCCTTTTTTT	א אוויסי	Ta 2 a a a	na ma	100m7	mami	n mar		amm v	7 7 m/	12/22/2	N (TI 2N :	A CIMMA		F047
	GCCTTATT	TA ATC	IGAGCC	G TO	SCCTA	ATCTI	. TG:	IAAAU	TTA	AATC	AGAA	ATA A	ACTT	FITCCA	5847
370 371	3 CC3 CC	a a mmm		nm 20	1 3 CIMC	700070		namac	maa	222	יא מאר	naa r	nmaa.	10m2 00	5007
371 372	ACCAGCTT	AA TTT		T AC	ACT	JIGAI	GA.	GTCC	ricc	AAA	ACA.	rcc :	TTCAC	GTACC	5907
372 373	CA A A CITICO	(1) MMM	מחת מים	.m. az	3 0 0 0	n 2 m ca c		maa							5043
	CAAAGTGG	CA TIT	ICAATA	AT CA	MGC	IAICC	. GGA	ATCC							5943
374															
375	(2) THE	DMA (117.01	T HOD	000	TD 1	TO 0									
376	(2) INFO	RMATIO	N FOR	SEQ	ו ענ	NU:2:									
377	,	- 1 GEO	TENCE	CITAL	a ami	3D T 00	17.00								
378	(i) SEQ							_						
379			A) LEN B) TYF					icias	3						
380		•	•												
381 382		(1	O) TOP	OTO	3Y: J	linea	ır							•	
	/ =	- \ MOT 1	orn n	mvn	a										
383	. (1	i) MOL	COLE	TYPE	s: pi	rotei	.n								
384	/	4 \ CEO	TEMOTE	DECC	ים ד חר		C FO	, TD	NO - 1	٠.					
385	(х	i) SEQ	DENCE	DESC	RIP	LION:	SEG	5 ID	NO:2	4:					
386	Mat Dha	C M - 4	. 7	- 1.	77-7	G	T	77-7	T	a	**- 7	77_7	a 1	ml	
387	Met Phe	Ser Me	_	тте	vai	Cys	ьeu		ьеи	ser	Val	vai	-	THE	
388	1	,	5					10					15		
389	3] a m	mb 37.		0	a 1	~1	a 1	3	D1	.	27.	a 1	~ 1	01	
390	Ala Trp		_	ser	GIY	GIU	_	Asp	Pne	ьeu	Ата		GIY	GIY	
391		20	J				25					30			
392	01 Wel	7 C1-	- D	7	17- 1	77-7	a 1	7	TT-2	a 1	C	77-	~	T	
393	Gly Val		Pro	Arg	vaı		GIU	Arg	HIS	GIN		Ата	Cys	газ	
394		35				40					45				
395	Acm Com	7 cm	. D	Dha	C	C	7	a 1	7	M	7	П	T	G	
396	Asp Ser	Asp II	Pro	Pne	_	ser	Asp	GIU	Asp	_	Asn	Tyr	гÀг	Cys	
397	50				55					60					
398	Deep Com	al a	. 7	M-L	T	a 1	T	T1.	7	a1	37-3	7	a 1	7	
399	Pro Ser	GIY CY	arg		ьуѕ	GIY	Leu	тте		GIU	vai	ASII	GIII	_	
400	65			70					75					80	
401	Dho mha	7 an 7	* Tla	7.~~	T~	T 6**	T	7. ~~	C.~	T 011	Dho	~1	TT	C1 ~	
402	Phe Thr	ASII AI	-	ASII	пур	ьеи	пЛЯ		Set	ьeu	FIIE	GIU	-	GIII	
403			85					90					95		
404	Tara Nas	Agn T	7 7 ~~	C~~	u: ~	C.~	T 0	ሞ Ի∽	Th ~	λ c.∽	T1 ^	Mo≠	C1	Tlo	
405	Lys Asn	_	_	ser,	uls	ser.		III	TIIL	ASII	тте		GIU	TIE	
106		1 ^	٦.												
406		10	0				105					110			
406 407 408	Leu Arg			Co~	So~	ה. ה		7 5 5	7~~	Λα ν	λας		TT-1	λαη	

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409			115					120					125			
410 411	Ara	Val	Ser	Glu	Asp	T.e.u	Δτα	Ser	Δνα	Tle	Glu	Val	T.e.11	T.ve	Δra	T.375
412	**** 9	130	DCI	O1u	nop.	Dou	135	501	my	110	GIU	140	пси	БуБ	Arg	БуЗ
413																
414		Ile	Glu	Lys	Val		His	Ile	Gln	Leu		Gln	Lys	Asn	Val	_
415 416	145					150					155					160
416	Δla	Gln	T.e.ii	Val	Asp	Met	Lvs	Δrα	T.e.11	Glu	Va l	Δen	Tle	Asn	Tle	Larg
418	niu	0111	шси	var	165	MCC	цуз	nr 9	пси	170	Vai	лэр	116	App	175	пуз
419																
420	Ile	Arg	Ser	Cys	Arg	Gly	Ser	Cys	Ser	Arg	Ala	Leu	Ala	Arg	Glu	Val
421				180					185					190		
422	_		_	_	_		_			_		_				
423	Asp	Leu	_	Asp	Tyr	GIu	Asp		GIn	Lys	GIn	Leu		GIn	Val	IIe
424 425			195					200					205			
426	Ala	Lvs	Asp	Leu	Leu	Pro	Ser	Ara	Asp	Ara	Gln	His	Leu	Pro	Leu	Ile
427		210					215	5		9	U	220				
428																
429		Met	Lys	Pro	Val	${\tt Pro}$	Asp	Leu	Val	Pro	Gly	Asn	Phe	Lys	Ser	Gln
430	225					230					235					240
431	-	~ 1 -	.				~1	_	-		-	 1			_	~7
432 433	ьeu	GIN	гуѕ	vai	Pro 245	Pro	GIU	Trp	гла		ьeu	Thr	Asp	Met	255	GIn
433					245					250					255	
435	Met	Arq	Met	Glu	Leu	Glu	Arq	Pro	Glv	Glv	Asn	Glu	Ile	Thr	Ara	Gly
436		- 3		260					265	1				270		2
437																
438	Gly	Ser		Ser	Tyr	Gly	Thr	_	Ser	Glu	Thr	Glu		Pro	Arg	Asn
439			275					280					285			
440 441	Pro	Sar	Sar	Δla	Gly	Sar	Trn	λan	Sar	Glv	Sar	Sar	G] w	Dro	Glaz	Ser
442	FIO	290	Der	AIG	Gry	561	295	ASII	Ser	GIY	Der	300	Gry	FIO	GIY	Ser
443																
444	Thr	Gly	Asn	Arg	Asn	Pro	Gly	Ser	Ser	Gly	Thr	Gly	Gly	Thr	Ala	Thr
445	305					310					315					320
446		T	D	a 1	C	G	a 1	D	~1	a	77-	~1	a	M	7	G
447 448	Trp	ьуs	Pro	GIY	Ser 325	ser	GIA	Pro	GIY	330	Ата	GIY	ser	ттр	335	ser
449					343					330					333	
450	Gly	Ser	Ser	Gly	Thr	Gly	Ser	Thr	Gly	Asn	Gln	Asn	Pro	Gly	Ser	Pro
451	-			340		•			345					350		
452								•								
453	Arg	Pro	-	Ser	Thr	Gly	Thr	_	Asn	Pro	Gly	Ser		Glu	Arg	Gly
454			355					360					365			
455 456	Sar	Δla	G137	uie	Trr	Thr	Ser	Glu	Sar	Ser	1721	Ser	വു	Sar	Thr	Gly
457	SET	370	CIY	1113	115	1111	375	GIU	OGI	OCI	val	380	СТУ	DCI	1111	O T Y
458		- · •														
459	Gln	${\tt Trp}$	His	Ser	Glu	Ser	Gly	Ser	Phe	Arg	Pro	Asp	Ser	Pro	Gly	Ser

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460 461	385					390					395					400
462 463 464	Gly	Asn	Ala	Arg	Pro 405	Asn	Asn	Pro	Asp	Trp 410	Gly	Thr	Phe	Glu	Glu 415	Val
465 466 467	Ser	Gly	Asn	Val 420	Ser	Pro	Gly	Thr	Arg 425	Arg	Glu	Tyr	His	Thr 430	Glu	Lys
468 469 470	Leu	Val	Thr 435	Ser	Lys	Gly	Asp	Lys 440	Glu	Leu	Arg	Thr	Gly 445	-	Glu	Lys
471 472 473	Val	Thr 450	Ser	Gly	Ser	Thr	Thr 455	Thr	Thr	Arg	Arg	Ser 460	Cys	Ser	Lys	Thr
474 475 476	Val '465	Thr	Lys	Thr	Val	Ile 470	Gly	Pro	Asp	Gly	His 475	Lys	Glu	Val	Thr	Lys 480
477 478 479	Glu	Val	Val	Thr	Ser 485	Glu	Asp	Gly	Ser	Asp 490	Cys	Pro	Glu	Ala	Met 495	Asp
480 481 482	Leu	Gly	Thr	Leu 500	Ser	Gly	Ile	Gly	Thr 505	Leu	Asp	Gly	Phe	Arg 510	His	Arg
483 484 485	His	Pro	Asp 515	Glu	Ala	Ala	Phe	Phe 520	Asp	Thr	Ala	Ser	Thr 525	Gly	Lys	Thr
486 487 488	Phe	Pro 530	Gly	Phe	Phe	Ser	Pro 535	Met	Leu	Gly	Glu	Phe 540	Val	Ser	Glu	Thr
489 490 491	Glu 545	Ser	Arg	Gly	Ser	Glu 550	Ser	Gly	Ile	Phe	Thr 555	Asn	Thr	Lys	Glu	Ser 560
492 493 494	Ser	Ser	His	His	Pro 565	Gly	Ile	Ala	Glu	Phe 570	Pro	Ser	Arg	Gly	Lys 575	Ser
495 496 497	Ser	Ser	Tyr	Ser 580	Lys	Gln	Phe	Thr	Ser 585	Ser	Thr	Ser	Tyr	Asn 590	Arg	Gly
498 499 500	Asp	Ser	Thr 595	Phe	Glu	Ser	Lys	Ser 600	Tyr	Lys	Met	Ala	Asp 605	Glu	Ala	Gly
501 502 503	Ser	Glu 610	Ala	Asp	His	Glu	Gly 615	Thr	His	Ser	Thr	Lys 620	Arg	Gly	His	Ala
504 505 506	Lys 625	Ser	Arg	Pro	Val	Arg 630	Gly	Ile	His	Thr	Ser 635	Pro	Leu	Gly	Lys	Pro 640
507 508 509	Ser	Leu	Ser	Pro												
510	(2)	INF	ORMA'	rion	FOR	SEQ	ID 1	NO:3	:							

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511					
512	(i)			CTERISTICS:	
513				878 base pairs	
514		(B)	TYPE: nuc	leic acid	
515		(C)	STRANDEDN	ESS: double	
516		(D)	TOPOLOGY:	linear	
517					
518	(ii)	MOLE	CULE TYPE:	DNA (genomic)	
519	, ,			.5	
520					
521	(37i i)	TMME	DIATE SOUR	~₽.	
522	(* ± ± /			man fibrinogen	P-bota chain
523		(1)	CHONE: IIu	man ribrinogen	b-beta Chain
524	(=)	T3173 35 FT31	me.		
	(IX)	FEAT			
525			NAME/KEY:		
526		(B)	LOCATION:	1469	•
527				•	
528	(ix)	FEAT			
529		(A)	NAME/KEY:	exon	
530		(B)	LOCATION:	470583	
531					
532	(ix)	FEAT	JRE:		
533		(A)	NAME/KEY:	intron	
534			LOCATION:		
535					
536	(ix)	FEAT	TRE:		
537	(/		NAME/KEY:	exon	
538				32583449	
539		(1)	DOCATION.	32303449	
540	(1115)	FEAT	me.		
	(TX)			J	
541			NAME/KEY:		
542		(B)	LOCATION:	34503938	
543					
544	(ix)	FEAT			
545			NAME/KEY:		
546		(B)	LOCATION:	39394122	
547					
548	(ix)	FEAT	JRE:		
549		(A)	NAME/KEY:	intron	
550		(B)	LOCATION:	41235042	
551					
552	(ix)	FEAT	JRE:		
553			NAME/KEY:	exon	
554				50435270	
555		,_,			
556	(ix)	FEAT	TRE.		
557	(/		NAME/KEY:	intron	
558				52715830	
559		(1)	LOCALION:	JE/IJOJU	
560	(3.50)	FEAT	TDE.		
561	(12)			ovon	
201		(A)	NAME/KEY:	exon	

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562	(B) LOCATION: 58315944
563	
564	(ix) FEATURE:
565	(A) NAME/KEY: intron
566	(B) LOCATION: 59456632
567	
568	(ix) FEATURE:
569	(A) NAME/KEY: exon
570	(B) LOCATION: 66336758
571	
572	(ix) FEATURE:
573	(A) NAME/KEY: intron
574	(B) LOCATION: 67596966
575	
576	(ix) FEATURE:
577	(A) NAME/KEY: exon
578	(B) LOCATION: 69677252
579	(=, ========
580	(ix) FEATURE:
581	(A) NAME/KEY: intron
582	(B) LOCATION: 72537870
583	(2) 100:1110111 / 1100111
584	
585	(ix) FEATURE:
586	(A) NAME/KEY: exon
587	(B) LOCATION: 78718102
588	(B) DOCATION: 78710102
589	(iv) PENTITE.
	(ix) FEATURE:
590 501	(A) NAME/KEY: 3'UTR
591	(B) LOCATION: 81038537
592	
593	(ix) FEATURE:
594	(A) NAME/KEY: misc_RNA
595	(B) LOCATION: 85388878
596	
597	(ix) FEATURE:
598	(A) NAME/KEY: CDS
599	(B) LOCATION: join(470583, 32583449, 39394122, 50435270
600	58315944, 66336758, 69677252, 78718102)
601	
602	
603	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
604	
605	GAATTCATGC CCCTTTTGAA ATAGACTTAT GTCATTGTCA GAAAACATAA GCATTTATGG 60
606	
607	TATATCATTA ATGAGTCACG ATTTTAGTGG TTGCCTTGTG AGTAGGTCAA ATTTACTAAG 120
608	
609	CTTAGATTTG TTTTCTCACA TATTCTTTCG GAGCTTGTGT AGTTTCCACA TTAATTTACC 180
610	
611	AGAAACAAGA TACACACTCT CTTTGAGGAG TGCCCTAACT TCCCATCATT TTGTCCAATT 240
612	

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613	AAATGAATTG AAGAAATTTA ATGTTTCTAA ACTAGACCAA CAAAGAATAA TAGTTGTATG	300
614 615	ACAAGTAAAT AAGCTTTGCT GGGAAGATGT TGCTTAAATG ATAAAATGGT TCAGCCAACA	360
616 617	AGTGAACCAA AAATTAAATA TTAACTAAGG AAAGGTAACC ATTTCTGAAG TCATTCCTAG	420
618 619 620 621	CAGAGGACTC AGATATATAT AGGATTGAAG ATCTCTCAGT TAAGTCTAC ATG AAA Met Lys	475
622 623 624 625	AGG ATG GTT TCT TGG AGC TTC CAC AAA CTT AAA ACC ATG AAA CAT CTA Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys His Leu 5 10 15	523
626 627 628 629	TTA TTG CTA CTA TTG TGT GTT TTT CTA GTT AAG TCC CAA GGT GTC AAC Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser Gln Gly Val Asn 20	571
630 631 632 633	GAC AAT GAG GAG GTGAATTTTT TAAAGCATTA TTATATTATT AGTAGTATTA Asp Asn Glu Glu 35	623
634 635	TTAATATAAG ATGTAACATA ATCATATTAT GTGCTTATTT TAATGAAATT AGCATTGCTT	683
636 637	ATAGTTATGA AATGGAATTG TTAACCTCTG ACTTATTGTA TTTAAAGAAT GTTTCATAGT	743
638 639	ATTTCTTATA TAAAAACAAA GTAATTTCTT GTTTTCTAGT TTATCACCTT TGTTTTCTTA	803
640 641	AGATGAGGAT GGCTTAGCTA ATGTAAGATG TGTTTTTCTC ACTTGCTATT CTGAGTACTG	863
642 643	TGATTTTCAT TTACTTCTAG CAATACAGGA TTACAATTAA GAGGACAAGA TCTGAAAATC	923
644 645	TCACAAACTA TAAAATAATA AAAGAGCAGA ATTTTAAGAT AAAAGAAACT GGTGGTAGGT	983
646 647 648	AGATTGTTCT TTGGTGAAGG AAGGTAATAT ATATTGTTAC TGAGATTACT ATTTATAAAA	1043
649 650	ATTATAACTA AGCCTAAAAG CAAAATACAT CAAGTGTAAT GATAGAAAAT GAAATATTGC	1103
651 652	TTTTTTCAGA TGAAAAGTTC AAATTAGAGT TAGTGTGTAT TGTTATTATT AATAGTTATG	1163
653 654	AAACACGGTT CAGTCTAATT TATTTATTTG TAGAACAGTT TGTCCTCAAC TATTATTTTT	1223
655	GCTGACTTAT TGCTGTTAAT TTGCAGTTAC TAAAAATACA GAAATGCATT TAGGACAATG	1283
656 657	GATATTTAAG AAATTTAAAT TTTATCATCA AACGTATCAT GGCCAAATTT CTTACATATA	1343
658 659	GCATAGTATC ATTAAACTAG AAATAAGAAT ACACAATAAT ATTTAAATGA AGTGATTCAT	1403
660 661	TTCGGATCAT TATTGAGTTT CAAGGGAACT TGAGTGTTGT ACTTATCAGA CTCTACATGT	1463
662 663	AAGAACATAT AGTTAATCTG GTTGTGTGTG TAAAAACATA TGGTTAATCT GGTTAAGTCT	1523

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T 1583
T 1643
G 1703
A 1763
T 1823
G 1883
A 1943
T 2003
A 2063
G 2123
A 2183
T 2243
A 2303
A 2363
A 2423
T 2483
T 2543
C 2603
A 2663
A 2723
A 2783
A 2843
A 2903
C 2963
A 3023

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TIME: 15:01:41

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715	AGGCCTCTCT TTAAAAACTA CACTGCATCA TAGCTTTTTT GTGCAGTTGG TCTTTCTACT	3083
716		
717	GTTACTGAAC AGTAAGCAAC CTACAGATTC ACTATCACCA ACCAGCCAGT TGATGGATCT	3143
718		
719	TAAGCAAATT ATCAAGCTTG TGATAACCTA AATTATAAAA TGAGGGTGTT GGAATAGTTA	3203
720		2060
721	CATTCCAAAT CTTCTATAAC ACTCTGTATT ATATTTCTGC CTCATTCCTT GTAG GGT	3260
722 723	Gly	
723 724		
724 725	TTC TTC AGT GCC CGT GGT CAT CGA CCC CTT GAC AAG AAG AGA GAA GAG	3308
726	Phe Phe Ser Ala Arg Gly His Arg Pro Leu Asp Lys Lys Arg Glu Glu	3300
727	40 45 50 55	
728	40 43 30 33	
729	GCT CCC AGC CTG AGG CCT GCC CCA CCG CCC ATC AGT GGA GGT GGC TAT	3356
730	Ala Pro Ser Leu Arg Pro Ala Pro Pro Pro Ile Ser Gly Gly Tyr	3330
731	60 65 70	
732		
733	CGG GCT CGT CCA GCC AAA GCA GCT GCC ACT CAA AAG AAA GTA GAA AGA	3404
734	Arg Ala Arg Pro Ala Lys Ala Ala Ala Thr Gln Lys Lys Val Glu Arg	
735	75 80 85	
736		
737	AAA GCC CCT GAT GCT GGA GGC TGT CTT CAC GCT GAC CCA GAC CTG	3449
738	Lys Ala Pro Asp Ala Gly Gly Cys Leu His Ala Asp Pro Asp Leu	
739	90 95 100	
740		
741	GTGGGTGCAC TGATGTTTCT TGCAGTGGTG GCTCTCTCAT GCAGAGAAAG CCTGTAGTCA	3509
742		
743	TGGCAGTCTG CTAATGTTTC ACTGACCCAC ATTACCATCA CTGTTATTTT GTTTGTTTAT	3569
744		2500
745	TTTGGAAATA AAATTCAAAA CATAAACATA TTGGGCCTTT GGTTTAGGCT TTCTTTCTTG	3629
746 747	TTTTCTTTGG TCTGGGCCCA AAATTTCAAA TTAGGATATG TGGGTGCCAC CTTTCCATTT	3689
748	TITICITIGG TCTGGGCCCA AAATTTCAAA TTAGGATATG TGGGTGCCAC CTTTCCATTT	3009
749	GTATTTTGCC ACTGCCTTTG TTTAGTTGGT AAAATTTTCA TAGCCCAATT ATATTTTTTC	3749
750		3,13
751	TGGGGTAAGT AATATTTTAA ATCTCTATGA GAGTATGATG ATGACTTTCG AATTTCTGGT	3809
752		
753	CTTACAGAAA ACCAAATAAT AAATTTTTAT GTTGGCTAAT CGTATCGCTG AATTTTCCTA	3869
754		
755	TGTGCTATTT TAACAAATGT CCATGACCCA AATCCTTCAT CTAATGCCTG CTATTTTCTT	3929
756		
75 7	TGTTTTTAG GGG GTG TTG TGT CCT ACA GGA TGT CAG TTG CAA GAG GCT	3977
758	Gly Val Leu Cys Pro Thr Gly Cys Gln Leu Gln Glu Ala	
759	105 110 115	
760		
761	TTG CTA CAA CAG GAA AGG CCA ATC AGA AAT AGT GTT GAT GAG TTA AAT	4025
762	Leu Leu Gln Gln Glu Arg Pro Ile Arg Asn Ser Val Asp Glu Leu Asn	
763	120 125 130	
764 765	AAC AAT GTG GAA GCT GTT TCC CAG ACC TCC TCT TCT TCC TTT CAG TAC	4072
765	AAC AAT GIG GAA GCT GIT TCC CAG ACC TCC TCT TCC TTT CAG TAC	4073

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766 767 768	Asn Asn Val Glu Ala Val Ser Gln Thr Ser Ser Ser Ser Phe Gln Tyr 135 140 145	
769	ATG TAT TTG CTG AAA GAC CTG TGG CAA AAG AGG CAG AAG CAA GTA AAA G	4122
770	Met Tyr Leu Leu Lys Asp Leu Trp Gln Lys Arg Gln Lys Gln Val Lys	7122
771	150 155 160	
772		
773	GTAGATATCC TTGTGCTTTC CATTCGATTT TCAGCTATAA AATTGGAACC GTTAGACTGC	4182
774		
775	CACGAGAATG CATGGTTGTG AGAAGATTAA CATTTCTGGG TTAGTGAATA GCATTCATAC	4242
776		
777	GCTTTTGGGC ACCTTCCCCT GCAACTTGCC AGATAAGCAC TATTCAGCTC TTATTCCCAG	.4302
778		
779 780	TCTGACATCA GCAAGTGTGA TTTTCTATGA AAAATTCTAC TATGACTCCT TATTTTAAGT	4362
780 781	ATACAAGAAA CTTGTGACTC AGAAGATAAT ATTTACAGAG TGGAAAAAAA CCCCTAGCAT	4422
782	ATACAAGAAA CIIGIGACIC AGAAGATAAT ATTTACAGAG IGGAAAAAAA CCCCTAGCAT	4422
783	TTATAGTTTT AACATTTGAG GTTTTGAATG AGAGAGTTAT CCATAATATA TTCAATTGTG	4482
784		1102
785	TTGTGGATAA TGACACCTAA CCTGTGAATC TTGAGGTCAG AATGTTGAGT GCTGTTGACT	4542
786		
787	TGGTGGTCAG GAAACAGCTA GTGCGTGAGC CTGGCACAGG CATCTCAGTG AGTAGCATAC	4602
788		
789	CCACAGTTGG AAATTTTTCA AAGAAATCAA AGGAATCATG ACATCTTATA AATTTCAAGG	4662
790		
791	TTCTGCTATA CTTATGTGAA ATGGATAAAT AAATCAAGCA TATCCACTCT GTAAGATTGA	4722
792 793		4700
793 794	ACTTCTCAGA TGGAAGACCC CAATACTGCT TTCTCCTCTT TTCCCTCACC AAAGAAATAA	4782
795	ACAACCTATT TCATTTATTA CTGGACACAA TCTTTAGCGT ATACCTATGG TAAATTACTA	4842
796	Total Committee	1012
797	GTATGGTGGT TAGGATTTAT GTTAATTTGT ATATGTCATG CGCCAAATCA TTTCCACTAA	4902
798		
799	ATATGACTAT ATATCATAAC TGCTTGGTGA TAGCTCAGTG TTTAATAGTT TATTCTCAGA	4962
800		
801	AAATCAAAAT TGTATAGTTA AATACATTAG TTTTATGAGG CAAAAATGCT AACTATTTCT	5022
802		
803	ACATAATTTC ATTTTTCCAG AT AAT GAA AAT GTA GTC AAT GAG TAC TCC	5071
804	Asp Asn Glu Asn Val Val Asn Glu Tyr Ser	
805 806	165 170	
807	TCA GAA CTG GAA AAG CAC CAA TTA TAT ATA GAT GAG ACT GTG AAT AGC	5119
808	Ser Glu Leu Glu Lys His Gln Leu Tyr Ile Asp Glu Thr Val Asn Ser	3113
809	175 180 185	
810		
811	AAT ATC CCA ACT AAC CTT CGT GTG CTT CGT TCA ATC CTG GAA AAC CTG	5167
812	Asn Ile Pro Thr Asn Leu Arg Val Leu Arg Ser Ile Leu Glu Asn Leu	
813	190 195 200 205	
814		
815	AGA AGC AAA ATA CAA AAG TTA GAA TCT GAT GTC TCA GCT CAA ATG GAA	5215
816	Arg Ser Lys Ile Gln Lys Leu Glu Ser Asp Val Ser Ala Gln Met Glu	

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817	210	215	220
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819	TAT TGT CGC ACC CCA TGC ACT GTC AG	T TGC AAT ATT CCT GTG	GTG TCT 5263
820	Tyr Cys Arg Thr Pro Cys Thr Val Se	r Cys Asn Ile Pro Val	Val Ser
821	225 230	235	
822			
823	GGC AAA G GTAACTGATT CATAAACATA T	TTTTAGAGA GTTCCAGAAG	AACTCACACA 5320
824	Gly Lys		
825			
826	~		
827	CCAAAAATAA GAGAACAACA ACAACAACAA A	AATGCTAAG TGGATTTTCC	CAACAGATCA 5380
828			G3.GTGGGGTG
829	TAATGACATT ACAGTACATC ATAAAAATAT CO	TTAGCCAG TTGTGTTTTG	GACTGGCCTG 5440
830 831			CTCCCTCATC
832	GTGCATTTGC TGGTTTTGAT GAGCAGGATG G	GCACAGGI AGICCCAGGG	GTGGCTGATG 5500
833	TGTGCATCTG CGTACTGGCT TGAACAGATG GO	TAGAACCAC AGATAGATGT	AGAAGTTTCT 5560
834	TOTOCATCTO COTACTOCT TOAACAGATO O	CAGAACCAC AGAIAGAIGI	AGAAGIIICI 5500
835	CCATTTTGTG TGTTCTGGGA GCTCATGGAT A	TTCCAGGAC ACAAAAGGTG	GAGAAGAGCT 5620
836			5010
837	TTGTTCATCC TCTTAGCAGA TAAACGTCCT CA	AAAACTGGG TTGGACTTAC	TAAAGTAAAA 5680
838			
839	TGAAAATCTA ATATTTGTTA TATTATTTTC A	AGGTCTAT AATAACACAC	TCCTTAGTAA 5740
840			
841	CTTATGTAAT GTTATTTTAA AGAATTGGTG AG	CTAAATACA AAGTAATTAT	GTCATAAACC 5800
842			
843	CCTGAACATA ATGTTGTCTT ACATTTGCAG		
844		lu Cys Glu Glu Ile Il	
845	24	10 24	5
846	GG1 GGT G11 1G1 TGT G11 1TG T1T GT		
847	GGA GGT GAA ACA TCT GAA ATG TAT CTC		
848 849	Gly Gly Glu Thr Ser Glu Met Tyr Let 250 255	-	Ser Val
850	250 255	260	
851	AAA CCG TAT AGA GTA TAC TGT GAC ATG	ב אאד אכא כאא אאד ככא	. G 5944
852	Lys Pro Tyr Arg Val Tyr Cys Asp Met		
853	265 270	275	
854	2,0	2,0	
855	GTAAGCTTTC GACAGTTGTT GACCTGTTGA TO	CTGTAATTA TTTGGATACC	GTAAAATGCC 6004
856			
857	AGGAAACAAG GCCAGGTGTG GTGGCTCATA CO	CTGTAATTC CAGCACCTTG	GGAGGCCAAA 6064
858			
859	GTGGGCTGAT AGCTTGAGCC TAGGAGTTTG A	AACTAGCCT GGGCAACATA	ATGAGACCCT 6124
860			
861	AACTCTACAA AAAAAAAAAA AATACCAAAA AA	AAAAAAAA AATCAGCTGT	GTTGGTAGTA 6184
862			
863	TGTGCCTGTA GTCCCAGCTA TCCAGGAGGC TO	JAGATGGGA GATCACCTGA	GCCCACAACC 6244
864 865			CACAMOOMOM 63.54
865 866	TGGAGTCTTG ATCATGCTAC TGAACTGTAG CO	IGGGCAAC AGAGGATAGT	GAGATCCTGT 6304
867	CTCAAAAAA AAAATTAATT AAAAAGCCAG G	א א א כר א א כבר א א ברייריי א א	CATCTAACAT 6364
55,	OZONANIANI NARAZIANII MANAGOONO U	EMORAGE TINGCICIAN	CITCIANCAI 0304

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868		
869	AGCTGACAAA GGAGTAATTT GATGTGGAAT TCAACCTGAT ATTTAAAAGT TATAAAATAT	6424
870	INCOMENTE CONCENTED CONTROL OF THE C	0121
871	CTATAATTCA CAATTTGGGG TAAGATAAAG CACTTGCAGT TTCCAAAGAT TTTACAAGTT	6484
872		0101
873	TACCTCTCAT ATTTATTTCC TTATTGTGTC TATTTTAGAG CACCAAATAT ATACTAAATG	6544
874		
875	GAATGGACAG GGGATTCAGA TATTATTTTC AAAGTGACAT TATTTGCTGT TGGTTAATAT	6604
876		
877	ATGCTCTTTT TGTTTCTGTC AACCAAAG GA TGG ACA GTG ATT CAG AAC CGT	6655
878	Gly Trp Thr Val Ile Gln Asn Arg	
879	280 285	
880		
881	CAA GAC GGT AGT GTT GAC TTT GGC AGG AAA TGG GAT CCA TAT AAA CAG	6703
882	Gln Asp Gly Ser Val Asp Phe Gly Arg Lys Trp Asp Pro Tyr Lys Gln	
883	290 295 300	
884		
885	GGA TTT GGA AAT GTT GCA ACC AAC ACA GAT GGG AAG AAT TAC TGT GGC	6751
886	Gly Phe Gly Asn Val Ala Thr Asn Thr Asp Gly Lys Asn Tyr Cys Gly	
887	305 310 315	
888		
889	CTA CCA G GTAACGAACA GGCATGCAAA ATAAAATCAT TCTATTTGAA ATGGGATTTT	6808
890	Leu Pro	
891		
892		
893	TTTTAATTAA AAAACATTCA TTGTTGGAAG CCTGTTTTAG GCAGTTAAGA GGAGTTTCCT	6868
894		
895	GACAAAAATG TGGAAGCTAA AGATAAGGGA AGAAAGGCAG TTTTTAGTTT CCCAAAATTT	6928
896	,	
897	TATTTTTGGT GAGAGATTTT ATTTTGTTTT TCTTTTAG GT GAA TAT TGG CTT	6980
898	Gly Glu Tyr Trp Leu	
899	320	
900		
901	GGA AAT GAT AAA ATT AGC CAG CTT ACC AGG ATG GGA CCC ACA GAA CTT	7028
902	Gly Asn Asp Lys Ile Ser Gln Leu Thr Arg Met Gly Pro Thr Glu Leu	,
903	325 330 335 340	
904		
905	TTG ATA GAA ATG GAG GAC TGG AAA GGA GAC AAA GTA AAG GCT CAC TAT	7076
906	Leu Ile Glu Met Glu Asp Trp Lys Gly Asp Lys Val Lys Ala His Tyr	,
907	345 350 355	
908		
909	GGA GGA TTC ACT GTA CAG AAT GAA GCC AAC AAA TAC CAG ATC TCA GTG	7124
910	Gly Gly Phe Thr Val Gln Asn Glu Ala Asn Lys Tyr Gln Ile Ser Val	
911	360 365 370	
912		
913	AAC AAA TAC AGA GGA ACA GCC GGT AAT GCC CTC ATG GAT GGA GCA TCT	7172
914	Asn Lys Tyr Arg Gly Thr Ala Gly Asn Ala Leu Met Asp Gly Ala Ser	· -
915	375 380 385	
916		
917	CAG CTG ATG GGA GAA AAC AGG ACC ATG ACC ATT CAC AAC GGC ATG TTC	7220
918	Gln Leu Met Gly Glu Asn Arg Thr Met Thr Ile His Asn Gly Met Phe	· _ - -
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919	390	395	400	
920 921	TTC AGC ACG	TAT GAC AGA GAC AAT GAC	GGC TG GTATGTGTGG	7262
922		Tyr Asp Arg Asp Asn Asp (
923	405	410	415	
924 925	CACTCTTTGC TO	CCTGCTTTA AAAATCACAC TAA'	TATCATT ACTCAGAATC ATTAACAATA	7322
926		•		
927 928	TTTTTAATAG C	FACCACTTC CTGGGCACTT ACT	GTCAGCC ACTGTCCTAA GCTCTTTATG	7382
929 930	CATCACTCGA A	AGCATTTCA ACTATAAGGT AGA	CATTCTT ATTCTCATTT TACAGATGAG	7442
931 932	ATTTAGAGAG AT	TTACGTGAT TTGTCCAATG TCA	CACAACT ACCCAGAGAT AAAACTAGAA	7502
933	יייינאנרארא מי		TTAGATA AATACCTATA TCTCTATATT	7562
934	IIIOAGCACA G	TACTITET GARTANTGAG CAT	TIAGATA AATACCIATA TCTCTATATT	7502
935	CTAAAGTGTG TO	። የተርልልልልርጥ ጥጥርልጥጥጥርል ጥጥጥ	CCAGGGT TCTCTGATAC TAAGGGTTGT	7622
936	0112101010			, 022
937	AAAAGCTATT A	TTCCAGTAT AAAGTAACAA ACA	CAGTCCC TAGATGGATT GCCACAAAGG	7682
938				
939	CCCAGTTATC TO	CTCTTTCTT GCTATAGGGC ACA	GGAGGTC TTTGGTGTAT TAGTGTGACT	7742
940				
941	CTATGTATAG CA	ACCCAAAGG AAAGACTACT GTG	CACACGA GTGTAGCAGT CTTTTATGGG	7802
942				
943	TAATCTGCAA AA	ACGTAACTT GACCACCGTA GTT	CTGTTTC TAATAACGCC AAACACATTT	7862
944				
945			AA CAG TGT TCT AAA GAA GAC	7910
946	Le		ys Gln Cys Ser Lys Glu Asp	
947		420	425	
948				
949			CAT GCA GCC AAT CCA AAC GGC	7958
950			His Ala Ala Asn Pro Asn Gly	
951	430	435	440	
952 953	אמא שאמ שאמ נ	TOO COT CON CNC TING NOC I	TGG GAC ATG GCA AAG CAT GGC	8006
953 954			Trp Asp Met Ala Lys His Gly	8006
955	445	450	455 460	
956	443	430	400	
957	ልሮል GAT GAT (י דעע מדם דכב אדב אחד	TGG AAG GGG TCA TGG TAC TCA	8054
958			Trp Lys Gly Ser Trp Tyr Ser	0031
959	1111 110P 110P (465		
960		100	170	
961	ATG AGG AAG	ATG AGT ATG AAG ATC AGG	CCC TTC TTC CCA CAG CAA TAGTCCC	CAA 8109
962		Met Ser Met Lys Ile Arg		
963		480 485	490	
964				
965	TACGTAGATT T	TTGCTCTTC TGTATGTGAC AAC	ATTTTTG TACATTATGT TATTGGAATT	8169
966				
067				
967	TTCTTTCATA C	ATTATATTC CTCTAAAACT CTC.	AAGCAGA CGTGAGTGTG ACTTTTTGAA	8229
967 968	TTCTTTCATA C	ATTATATTC CTCTAAAACT CTC.	AAGCAGA CGTGAGTGTG ACTTTTTGAA	8229

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970		
	THE THE PARTY OF T	0040
971 972	TCTTGCTCAC CCAAGAAGTA ACAAAAGTAT AGTTTTGACA GAGTTGGTGT TCATAATTTC	8349
973	AGTTCTAGTT GATTGCGAGA ATTTTCAAAT AAGGAAGAGG GGTCTTTTAT CCTTGTCGTA	8409
974	AGIICIAGII GAIIGCGAGA AIIIICAAAI AAGGAAGAGG GGICIIIIAI CCIIGICGIA	0403
975	GGAAAACCAT GACGGAAAGG AAAAACTGAT GTTTAAAAGT CCACTTTTAA AACTATATTT	8469
976	GOARANCEAT GACGGRAAGG AAAAACTGAT GITTAAAAGT CEACTITTAA AACTATATIT	0407
977	ATTTATGTAG GATCTGTCAA AGAAAACTTC CAAAAAGATT TATTAATTAA ACCAGACTCT	8529
978	ATTIATORNO GATCIOTCAA AGAAMACTIC CAMAMAGATI TATTAATTAA ACCAGACTCI	0327
979	GTTGCAATAA GTTAATGTTT TCTTGTTTTG TAATCCACAC ATTCAATGAG TTAGGCTTTG	8589
980	GIIGGAIAA GIIAAIGIII ICIIGIIIIG IAAIGGACAC AIIGAAIGAG IIAGGGIIIG	0303
981	CACTTGTAAG GAAGGAGAAG CGTTCACAAC CTCAAATAGC TAATAAACCG GTCTTGAATA	8649
982		0015
983	TTTGAAGATT TAAAATCTGA CTCTAGGACG GGCACGGTGG CTCACGACTA TAATCCCAAC	8709
984		
985	ACTTTGGGAG GCTGAGGCGG GCGGTCACAA GGTCAGGAGT TCAAGACCAG CCTGACCAAT	8769
986		
987	ATGGTGAAAC CCCATCTCTA CTAAAAATAC AAAAATTAGC CAGGCGTGGT GGCAGGTGCC	8829
988		
989	TGTAGGTCCC AGCTAGCCTG TGAGGTGGAG ATTGCATTGA GCCAAGATC	8878
990		
991		
992	(2) INFORMATION FOR SEQ ID NO:4:	
993	•	
994	(i) SEQUENCE CHARACTERISTICS:	
995	(A) LENGTH: 491 amino acids	
000		
996	(B) TYPE: amino acid	
996 997	(B) TYPE: amino acid (D) TOPOLOGY: linear	
	• •	
997	• •	
997 998	(D) TOPOLOGY: linear	
997 998 999	(D) TOPOLOGY: linear	
997 998 999 1000	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
997 998 999 1000 1001	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein	
997 998 999 1000 1001 1002	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
997 998 999 1000 1001 1002 1003	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1 5 10 15	
997 998 999 1000 1001 1002 1003 1004 1005	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1 15 His Leu Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser Gln Gly	
997 998 999 1000 1001 1002 1003 1004 1005 1006	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1 5 10 15	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1 15 His Leu Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser Gln Gly 20 25 30 Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg Gly His Arg Pro	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012	(D) TOPOLOGY: linear (ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1 5 10 15 His Leu Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser Gln Gly 20 25 30 Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg Gly His Arg Pro 35 40 45 Leu Asp Lys Lys Arg Glu Glu Ala Pro Ser Leu Arg Pro Ala Pro Pro	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1 15 His Leu Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser Gln Gly 20 25 Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg Gly His Arg Pro 35 40 Leu Asp Lys Lys Arg Glu Glu Ala Pro Ser Leu Arg Pro Ala Pro Pro 50 Pro Ile Ser Gly Gly Gly Tyr Arg Ala Arg Pro Ala Lys Ala Ala Ala	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 15 His Leu Leu Leu Leu Leu Cys Val Phe Leu Val Lys Ser Gln Gly 25 Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg Gly His Arg Pro 35 Leu Asp Lys Lys Arg Glu Glu Ala Pro Ser Leu Arg Pro Ala Pro Pro 50 Pro Ile Ser Gly Gly Gly Tyr Arg Ala Arg Pro Ala Lys Ala Ala Ala 80 Thr Gln Lys Lys Val Glu Arg Lys Ala Pro Asp Ala Gly Gly Cys Leu	
997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017	(ii) MOLECULE TYPE: protein (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: Met Lys Arg Met Val Ser Trp Ser Phe His Lys Leu Lys Thr Met Lys 1	

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1001				_	_	_			_	_	_	_,		_		_
1021 1022	His	Ala	Asp		Asp	Leu	GLY	Val		Cys	Pro	Thr	GIY	_	GIn	Leu
1022				100					105					110		
1024	Gln	Glu	Ala	Leu	Leu	Gln	Gln	Glu	Ara	Pro	Tle	Ara	Asn	Ser	Val	Δsn
1025	0111		115		LCu	0111	0	120	9	110		9	125	501	val	тър
1026																
1027	Glu	Leu	Asn	Asn	Asn	Val	Glu	Ala	Val	Ser	Gln	Thr	Ser	Ser	Ser	Ser
1028		130					135					140				
1029																
1030	Phe	Gln	Tyr	Met	Tyr	Leu	Leu	Lys	Asp	Leu	Trp	Gln	Lys	Arg	Gln	Lys
1031	145		-		-	150		•	_		155		•	J		160
1032																
1033																
1034	Gln	Val	Lys	Asp	Asn	Glu	Asn	Val	Val	Asn	Glu	Tyr	Ser	Ser	Glu	Leu
1035					165					170					175	
1036																
1037	Glu	Lys	His		Leu	Tyr	Ile	Asp	Glu	Thr	Val	Asn	Ser		Ile	Pro
1038				180					185					190		
1039		_	_	_		_	_	_		_	.	_	_	_	_	_
1040	Thr	Asn		Arg	Val	Leu	Arg		Ile	Leu	Glu	Asn		Arg	Ser	Lys
1041			195					200					205			
1042	T1.	a 1	T	T	a 1	0	7	77-7	a	77-	a 1	1/ - J-	~1		a	7
1043	тте		гйг	ьeu	Glu	ser	-	vai	ser	Ата	GIN		GIU	Tyr	Cys	Arg
1044 1045		210					215					220				
1045	Thr	Dro	Caro	Πρ×	Val	Cor	Cara	λan	т10	Dro	17-1	V-1	Cox	C1	Tara	C1.,
1047	225	PIO	Cys	1111	vai	230	Cys	ASII	TTE	PIO	235	vaı	ser	GIÀ	цуѕ	240
1047	223					230					233					240
1049	Cvs	Glu	Glu	Tle	Ile	Ara	Lvs	Glv	Glv	Glu	Thr	Ser	Glu	Met	Tvr	Leu
1050	-7-				245	3	-1-	4 -7	1	250					255	
1051																
1052	Ile	Gln	Pro	Asp	Ser	Ser	Val	Lys	Pro	Tyr	Arq	Val	Tyr	Cys	Asp	Met
1053				260				•	265	-	_		•	270	•	
1054																
1055	Asn	Thr	Glu	Asn	Gly	Gly	Trp	Thr	Val	Ile	Gln	Asn	Arg	Gln	Asp	Gly
1056			275					280					285			
1057																
1058	Ser	Val	Asp	Phe	Gly	Arg	Lys	Trp	Asp	Pro	Tyr	Lys	Gln	Gly	Phe	Gly
1059		290					295					300				
1060	_				_		_		_	_	_	_		_	_	
1061		Val	Ala	Thr	Asn		Asp	GLY	Lys	Asn		Cys	GLy	Leu	Pro	
1062	305					310					315					320
1063	a1	Ш	Ш	T	~1	7	7	T	T1.	C	a 1	T	mla sa	7	1 /	a 1
1064 1065	GIU	Tyr	ırp	ьeu	Gly	ASN	ASP	гЛ2	тте		GIII	ьeu	ınr	arg		атА
1065					325					330					335	
1067	Pro	Thr	Glu	Len	Leu	T10	٠, ٢	Met	G111	Δαν	ጥጕጉ	Lare	Glv	Aen	Laze	Val
1068	110	1111	JIU	340	ыeu	116	GIU	1.100	345	roh	110	цуs	СТУ	350	בענם	Val
1069				J-10					J- 1 J					550		
1070	Lvs	Ala	His	·Tvr	Gly	Glv	Phe	Thr	Val	Gln	Asn	Glu	Ala	Asn	Lvs	Tvr
1071	4		355	4	- 2	2		360					365		4	4 -

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1072		
1072	Gln Ile Ser Val Asn Lys Tyr Arg Gly Thr Ala Gly Asn Ala Leu Met	
1073	370 375 380	
1075	370 373	
1076	Asp Gly Ala Ser Gln Leu Met Gly Glu Asn Arg Thr Met Thr Ile His	
1077	385 390 395 400	
1078	350 353 400	
1079	Asn Gly Met Phe Phe Ser Thr Tyr Asp Arg Asp Asn Asp Gly Trp Leu	
1080	405 410 415	
1081	103 110 113	
1082	Thr Ser Asp Pro Arg Lys Gln Cys Ser Lys Glu Asp Gly Gly Gly Trp	
1083	420 425 430	
1084	425	
1085	Frp Tyr Asn Arg Cys His Ala Ala Asn Pro Asn Gly Arg Tyr Tyr Trp	
1086	435 440 445	
1087	133	
1088	Gly Gly Gln Tyr Thr Trp Asp Met Ala Lys His Gly Thr Asp Asp Gly	
1089	450 455 460	
1090	430 433	
1091	Val Val Trp Met Asn Trp Lys Gly Ser Trp Tyr Ser Met Arg Lys Met	
1092	465 470 475 480	
1093	103 470 475 400	
1094	Ser Met Lys Ile Arg Pro Phe Phe Pro Gln Gln	
1095	485 490	
1096	103	
1097		
1098	(2) INFORMATION FOR SEQ ID NO:5:	
1099	(1) Intoldiffor for DIQ ID No.5.	
1100	(i) SEQUENCE CHARACTERISTICS:	
1101	(A) LENGTH: 10564 base pairs	
1102	(B) TYPE: nucleic acid	
1103	(C) STRANDEDNESS: double	
1104	(D) TOPOLOGY: linear	
1105	,	
1106	(ii) MOLECULE TYPE: DNA (genomic)	
1107		
1108		
1109	(vii) IMMEDIATE SOURCE:	
1110	(B) CLONE: human fibrinogen gamma chain	
1111	3 · 3 · · · · · · · · · · · · · · · · · · ·	
1112	(ix) FEATURE:	
1113	(A) NAME/KEY: CDS	
1114	(B) LOCATION: join(17991876, 19732017, 22072390, 2510	
1115	2603, 42114341, 46454778, 57585942, 7426	
1116	7703, 93429571)	
1117		
1118		
1119	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
1120		
1121	CTACACACTT CTTGAAGGCA AAGGCAATGC TGAAGTCACC TTTCATGTTC AAATCATATT 60	
1122		

RAW SEQUENCE LISTING PATENT APPLICATION US/08/206,176

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1123 1124	AAAAAGTTAG	CAAGATGTAA	TTATCAGTGT	ACTATGTAAA	TCTTTGTGAA	TGATCAATAA	120
1125	TTACATATTT	TCATTATATA	TATTTTAGTA	GATAATATTT	ATATACATTC	AACATTCTAA	180
1126 1127	ATATAGAAAG	TTTACAGAGA	AAAATAAAGC	CTTTTTTCC	AATCCTGTCC	TCCACCTCTG	240
1128 1129	CATCCCATTC	TTCTTCACAG	AGGCAACTGA	TTCAAGTCAT	TACATAGTTA	TTGAGTGTTA	300
1130 1131	ACTACAACTA	TGTTAAGTAC	AGCTATATAT	GTTAGATGCC	GTAGCCACAG	AAATCAGTTT	360
1132							
1133 1134	ACAATCTAAT	GCAGTGGATA	CAGCATGTAT	ACATATAATA	TAAGGTTGCT	ACAAATGCTA	420
1135 1136	TCTGAGGTAG	AGCTGTTTGA	AAGAATACTA	ATACTTAAAT	GTTTAATTCA	ACTGACTTGA	480
1137	TTGACAACTG	ATTAGCTGAG	TGGAAAAGAT	GGATGAGAAA	GATTGTGAGA	CTTAATTGGC	540
1138 1139	TGGTGGTATG	GTGATATGAT	TGACAATAAC	TGCTAAGTCA	GAGAGGGATA	TATTAAGGAG	600
1140 1141	GAGAAGAAAA	GCAACAAATC	TGGTTTTGAT	GTGTTCACTT	TGTTATAATT	ATTGATTATT	660
1142 1143	ጥ አ ርጥር እ አጥአጥ	ርነ እጥአጥጥጥአጥ		GAGTCAATAA	አ ጥ አ ጥ አ <i>ር</i> ረ ረ ጥጥጥ	CTA A ACACAC	720
1143	IACIGAAIAI	GAATATTAT	CITIGITIT	GAGICAAIAA	ATATACCTTT	GIAAAGACAG	720
1145 1146	AATTAAAGTA	TTAGTATTTC	TTTCAAACTG	GAGGCATTTC	TCCCACTAAC	ATATTTCATC	780
1147	AAAACTTATA	ATAAGCTTGG	TTCCAGAGGA	AGAAATGAGG	GATAACCAAA	AATAGAGACA	840
1148 1149	TTAATAATAG	TGTAACGCCC	AGTGATAAAT	CTCAATAGGC	AGTGATGACA	GACATGTTTT	900
1150 1151	CCCDDDCDCD	ል ርርልፐርርፕርፕ	אמפפפריאאא	CAGAAATGAT	GGCCCCTCCC	СУССУССТСУ	960
1152			,				
1153 1154	TTTTGCCCCT	TCCTTCAGCT	ATGCCTCTAC	TCTCCTTTAG	ATACAAGGGA	GGTGGATTTT	1020
1155 1156	TCTCTTCTCT	GAGATAGCTT	GATGGAACCA	CAGGAACAAT	GAAGTGGGCT	CCTGGCTCTT	1080
1157	TTCTCTGTGG	CAGATGGGGT	GCCATGCCCA	CCTTCAGACA	AAGGGAAGAT	TGAGCTCAAA	1140
1158 1159	AGCTCCCTGA	GAAGTGAGAG	CCTATGAACA	TGGTTGACAC	AGAGGGACAG	GAATGTATTT	1200
1160 1161	ССУСССТСУТ	ጥሮ እጥጥሮ ርጥር ር	ርአ አጥአርጥርአ አ	CTGGGACATG	CCCCAACTCA	СТСТССТССТ	1260
1162							
1163 1164	GCCACAGCCA	CAGATTAAAA	ATAATAATGT	TAACTGATCC	CTAGGCTAAA	ATAATAGTGT	1320
1165	TAACTGATCC	CTAAGCTAAG	AAAGTTCTTT	TGGTAATTCA	GGTGATGGCA	GCAGGACCCA	1380
1166 1167	TCTTAAGGAT	AGACTAGGTT	TGCTTAGTTC	GAGGTCATAT	CTGTTTGCTC	TCAGCCATGT	1440
1168 1169	አርጥርርአአርአአ	СТТССТТСТС	A CA CCCTCCA	CCACTCCCCT	ССТССТСАСА	GCAATGGATA	1500
1170							
1171 1172	ATGCTTCACT	AGCCTTTGCA	GATAATTTTG	GATCAGAGAA	AAAACCTTGA	GCTGGGCCAA	1560
1173	AAAGGAGGAG	CTTCAACCTG	TGTGCAAAAT	CTGGGAACCT	GACAGTATAG	GTTGGGGGCC	1620

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1174		
1175	AGGATGAGGA AAAAGGAACG GGAAAGACCT GCCCACCCTT CTGGTAAGGA GGCCCCGTGA	1680
1176	iiooiiooii iiiiiooiiioo odiiiidiioo oodiiooii oloofiiioon ogeeeegiqa	1000
1177	TCAGCTCCAG CCATTTGCAG TCCTGGCTAT CCCAGGAGCT TACATAAAGG GACAATTGGA	1740
1178		1,10
1179	GCCTGAGAGG TGACAGTGCT GACACTACAA GGCTCGGAGC TCCGGGCACT CAGACATC	1798
1180	COLORIDO LOCACIONE CONTROL CONTROL CARACATO	1750
1181	ATG AGT TGG TCC TTG CAC CCC CGG AAT TTA ATT CTC TAC TTC TAT GCT	1846
1182	Met Ser Trp Ser Leu His Pro Arg Asn Leu Ile Leu Tyr Phe Tyr Ala	1040
1183	1 5 10 15	
1184	1 10 15	
1185	CTT TTA TTT CTC TCT TCA ACA TGT GTA GCA GTAAGTGTGC TCTTCACAAA	1896
1186		1030
1187	Leu Leu Phe Leu Ser Ser Thr Cys Val Ala 20 25	
1188	20 25	
1189	ACCUMPCUMUM AAAMCCAAAC CUCCAAAAMA AAACACAMAA WAAACUACCAA AAAMMUMACCO	1056
	ACGTTGTTTA AAATGGAAAG CTGGAAAATA AAACAGATAA TAAACTAGTG AAATTTTCGT	1956
1190	AMPHONOGRA MONORA MAN COM ACC ACA AND ACC AND MOS AND MOS AND	2005
1191	ATTTTTCTC TTTTAG TAT GTT GCT ACC AGA GAC AAC TGC TGC ATC TTA	2005
1192	Tyr Val Ala Thr Arg Asp Asn Cys Cys Ile Leu	
1193	30 35	
1194	CAR CAA ACA MEG CERAACHA MERAACHE MODERN	0055
1195	GAT GAA AGA TTC GTAAGTAGTT TTTATGTTTC TCCCTTTGTG TGTGAACTGG	2057
1196	Asp Glu Arg Phe	
1197	40	
1198	1010000000 10011011 111 1 1 1 1 1 1 1 1	
1199		
	AGAGGGGCAG AGGAATAGAA ATAATTCCCT CATAAATATC ATCTGGCACT TGTAACTTTT	2117
1200		
1200 1201	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC	2117
1200 1201 1202	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC	2177
1200 1201 1202 1203	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT	
1200 1201 1202 1203 1204	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys	2177
1200 1201 1202 1203 1204 1205	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT	2177
1200 1201 1202 1203 1204 1205 1206	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45	2177 2230
1200 1201 1202 1203 1204 1205 1206 1207	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT	2177
1200 1201 1202 1203 1204 1205 1206 1207 1208	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp	2177 2230
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT	2177 2230
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65	2177 2230 2278
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA	2177 2230
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser	2177 2230 2278
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA	2177 2230 2278
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80	2177 2230 2278 2326
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT	2177 2230 2278
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro Asp	2177 2230 2278 2326
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT	2177 2230 2278 2326
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro Asp 90 95	2177 2230 2278 2326
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro Asp 90 95 GAA TCA TCA AAA CCA A GTGAGAAAAAT AAAGACTACT GACCAAAAAA	2177 2230 2278 2326
1200 1201 1202 1203 1204 1205 1206 1207 1208 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro Asp 90 95 GAA TCA TCA AAA CCA A GTGAGAAAAAT AAAGACTACT GACCAAAAAAA Glu Ser Ser Lys Pro	2177 2230 2278 2326
1200 1201 1202 1203 1204 1205 1206 1207 1208 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 55 60 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro Asp 90 95 GAA TCA TCA AAA CCA A GTGAGAAAAAT AAAGACTACT GACCAAAAAA	2177 2230 2278 2326
1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50	2177 2230 2278 2326 2374
1200 1201 1202 1203 1204 1205 1206 1207 1208 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221	TAAAAACATA GTCTAGGTTT TACCTATTTT TCTTAATAGA TTTTAAGAGT AGCATCTGTC TACATTTTTA ATCACTGTTA TATTTCAG GGT AGT TAT TGT CCA ACT ACC TGT Gly Ser Tyr Cys Pro Thr Thr Cys 45 GGC ATT GCA GAT TTC CTG TCT ACT TAT CAA ACC AAA GTA GAC AAG GAT Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys Asp 50 65 CTA CAG TCT TTG GAA GAC ATC TTA CAT CAA GTT GAA AAC AAA ACA TCA Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr Ser 70 75 80 GAA GTC AAA CAG CTG ATA AAA GCA ATC CAA CTC ACT TAT AAT CCT GAT Glu Val Lys Gln Leu Ile Lys Ala Ile Gln Leu Thr Tyr Asn Pro Asp 90 95 GAA TCA TCA AAA CCA A GTGAGAAAAAT AAAGACTACT GACCAAAAAAA Glu Ser Ser Lys Pro	2177 2230 2278 2326

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1225 1226 1227 1228	ATTTTTATGT CTCTGATCCT ATATTACAG AT ATG ATA GAC GCT GCT ACT TTG Asn Met Ile Asp Ala Ala Thr Leu 105 110	2532
1229 1230 1231 1232	AAG TCC AGG ATA ATG TTA GAA GAA ATT ATG AAA TAT GAA GCA TCG ATT Lys Ser Arg Ile Met Leu Glu Glu Ile Met Lys Tyr Glu Ala Ser Ile 115 120 125	2580
1233 1234 1235 1236	TTA ACA CAT GAC TCA AGT ATT CG GTAAGGATTT TTGTTTTAAT TTGCTCTGCA Leu Thr His Asp Ser Ser Ile Arg 130	2633
1237 1238	AGACTGATTT AGTTTTTATT TAATATTCTA TACTTGAGTG AAAGTAATTT TTAATGTGTT	2693
1239 1240	TTCCCCATTT ATAATATCCC AGTGACATTA TGCCTGATTA TGTTGAGCAT AGTAGAGATA	2753
1241 1242	GAAGTTTTTA GTGCAATATA AATTATACTG GGTTATAATT GCTTATTAAT AATCACATTG	2813
1243	AAGAAAGATG TTCTAGATGT CTTCAAATGC TAGTTTGACC ATATTTATCA AAAATTTTTT	2873
1244	CCCCATCCCC CATTTATCTT ACAACATAAA ATCAATCTCA TAGGAATTTG GGTGTTGAAA	2933
1246 1247	ATAAAATCCT CTTTATAAAA ATGCTGACAA ATTGGTGGTT AAAAAAATTA GCAAGCAGAG	2993
1248 1249	GCATAGTAAG GATTTTGGCT CCTAAAGTAA ATTATATTGA ATGTGGAGCA GGAAGAAACA	3053
1250 1251	TGTCTTGAGA GACTAAGTGT GGCAAATATT GCAAAGCTCA TATTGATCAT TGCAGAATGA	3113
1252 1253	ACCTGCATAG TCTCTTCCCT TCATTTGGAA GTGAATGTCT CTGTTAAAGC TTCTCAGGGA	3173
1254 1255 1256	CTCATAAACT TTCTGAACAT AAGGTCTCAG ATACAGTTTT AATATTTTTC CCCAATTTTT	3233
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1259 1260	TGGCCCAGGA AAGATTTCTC CTCTTTTTGC TATCAGAGGG CCCTTGTTAT TATTGTTATT	3353
1261 1262	ATTATTACTT GCATTATTAT TGTCCATCAT TGAAGTTGAA GGAGGTTATT GTACAGAAAT	3413
1263 1264	TGCCTAAGAC AAGGTAGAGG GAAAACGTGG ACAAATAGTT TGTCTACCCT TTTTTACTTC	3473
1265 1266	AAAGAAAGAA CGGTTTATGC ATTGTAGACA GTTTTCTATC ATTTTTGGAT ATTTGCAAGC	3533
1267 1268	CACCCTGTAA GTAACTACAA AAGGAGGGTT TTTACTTCCC CCAGTCCATT CCCAAAGCTA	3593
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1270 1271	AACGTTCCAG ATCATGTCCC TGTGTAAGTT ATATTTTAGA TTGAAGCTTA TATGTATAGC	3713
1272 1273	CTCAGTAGAT CCACAAGTGA AAGGTATACT CCTTCAGCAC ATGTGAATTA CTGAACTGAG	3773
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1278		
1279	TATTGACAAG GACTTTGTTA TTTGTGTTGG GAGTTGAGAC AATATGCCCC ATTCTAAGTA	3953
1280	IMITOROMO GACIITOTTA ITTOTOTO GACITORAGIA ATIMICOCCO ATTOTAGIA	3,33
	ANAZAMBAN GORGAZANER GENERGANGE BERNAMBAN MERCAR BERNAMBAN GERREGANER	4012
1281	AAAAGATTCA GGTCCACATT GTATTCCTGT TTTAATTGAT TTTTTGATTT GTTTTTCTTT	4013
1282		
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1284		
1285	AAGAATGGAA TAATTTATCA GAAAGCACTT CTTAAGAAAA TACTTAGCAG TTTCCAAAGA	4133
1286		
1287	AAATATAAAA TTACTCTTCT GAAAGGAATA CTTATTTTTG TCTTCTTATT TTTGTTATCT	4193
1288	·	
1289	TATGTTTCTG TTTGTAG A TAT TTG CAG GAA ATA TAT AAT TCA AAT AAT CAA	4244
1290	Tyr Leu Gln Glu Ile Tyr Asn Ser Asn Asn Gln	1211
1291	135 140 145	
1292		
1293	AAG ATT GTT AAC CTG AAA GAG AAG GTA GCC CAG CTT GAA GCA CAG TGC	4292
1294	Lys Ile Val Asn Leu Lys Glu Lys Val Ala Gln Leu Glu Ala Gln Cys	
1295	150 155 160	
1296		
1297	CAG GAA CCT TGC AAA GAC ACG GTG CAA ATC CAT GAT ATC ACT GGG AAA G	4341
1298	Gln Glu Pro Cys Lys Asp Thr Val Gln Ile His Asp Ile Thr Gly Lys	
1299	165 170 175	
1300	103	
	GENERAL DE LA COMPANIA DE MOCA DE CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DEL CONTRA DE LA CONTRA	4401
1301	GTAACTGATG AAGGTTATAT TGGGATTAGG TTCATCAAAG TAAGTAATGT AAAGGAGAAA	4401
1302		
1303	GTATGTACTG GAAAGTATAG GAATAGTTTA GAAAGTGGCT ACCCATTAAG TCTAAGAATT	4461
1304		
1305	TCAGTTGTCT AGACCTTTCT TGAATAGCTA AAAAAAACAG TTTAAAAGGA ATGCTGATGT	4521
1306		
1307	GAAAAGTAAG AAAATTATTC TTGGAAAATG AATAGTTTAC TACATGTTAA AAGCTATTTT	4581
1308		
1309	TCAAGGCTGG CACAGTCTTA CCTGCATTTC AAACCACAGT AAAAGTCGAT TCTCCTTCTC	4641
1310	TOMOGETO CACACTETTA CETUCATTIC AMACCACAT AMACTECAT TETECTTETE	1011
1311	TAG AT TGT CAA GAC ATT GCC AAT AAG GGA GCT AAA CAG AGC GGG CTT	4688
		4000
1312	Asp Cys Gln Asp Ile Ala Asn Lys Gly Ala Lys Gln Ser Gly Leu	
1313	180 185 190	
1314		
1315	TAC TTT ATT AAA CCT CTG AAA GCT AAC CAG CAA TTC TTA GTC TAC TGT	4736
1316	Tyr Phe Ile Lys Pro Leu Lys Ala Asn Gln Gln Phe Leu Val Tyr Cys	
1317	195 200 205	
1318		
1319	GAA ATC GAT GGG TCT GGA AAT GGA TGG ACT GTG TTT CAG AAG	4778
1320	Glu Ile Asp Gly Ser Gly Asn Gly Trp Thr Val Phe Gln Lys	2
1321	210 215 220	
1322		
1323	GTAATTTTTT CCCCACCATG TGTATTTAAT AAATTCCTAC ATTGTTTCTG CCATATGGCA	4838
1324		
1325	GATACTTTTC TAAGCACCTT GTGAACCGTA GCTCATTTAA TCCTTGCAAT AGCCCTAAGA	4898
1326		

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1330		
1331	TAGTTTCAGA GTTTGTGACT TGACTCTATA TTGTACTGGC ACTGACTTTG TAGATTCATG	5078
1332	TACTITICACA CITTOTOACT TOACTCTATA TICIACTOCC ACTOACTTTC TACATTCATC	3070
	GEOGRAPH ANGLES GROUP GROUP GROUP ANGLES ANG	F120
1333	GTGGCACATA ATCATAGTAC CACAGTGACA AATAAAAAGA AGGAAACTCT TTTGTCAGGT	5138
1334	·	
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1340		
1341	TCTGTTTACC TCCCACCACT GTTATAACTG TTTCTACAGG GGGCGCTCAG AGGGAATGAA	5378
1342	TOTALITACE TECCACACT GITATAACTG TITCHACAGG GGGCGCTCAG AGGGATGAA	3370
	TRANSPORTED A DESCRIPTION OF THE PROPERTY OF T	E430
1343	TGGTGGAAGC ATTAGTTGCC AGACACCGAT TGAGCAATGG GTTCCATCAT AAGTGTAAGA	5438
1344		
1345	ATCAGTAATA TCCAGCTAGA GTTCTGAAGT CGTCTAGGTG TCTTTTTAAT ATTACCACTC	5498
1346		
1347	ATTTAGAATT TATGATGTGC CAGAAACCCT CTTAAGTATT TCTCTTATAT TCTCTCAT	5558
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1349	GATCCTTGCA GCAACCCTAA GAAGTAACCA TCATTTTTCC TATTTGATAC ATGAGGAAAC	5618
1350		
1351	TGAGGTAGCT TGGCCAAGAT CACTTAGTTG GGAGTTGATA GAACCAGTGC TCTGTATTTT	5678
1352	TOAGGIAGET TOGECAAGAT CACTTAGTTG GGAGTTGATA GAACCAGTGE TETGTATTT	3070
	TO CALLED THE STREET OF COMMENCE THE STREET OF THE STREET	E = 2.0
1353	TGACAAAATG TTGACAGCAT TCTCTTTACA TGCATTGATA GTCTATTTTC TCCTTTTGCT	5738
1354		
1355	CTTGCAAATG TGTAATTAG AGA CTT GAT GGC AGT GTA GAT TTC AAG AAA AAC	5790
1356	Arg Leu Asp Gly Ser Val Asp Phe Lys Lys Asn	
1357	225 230	
1358		
1359	TGG ATT CAA TAT AAA GAA GGA TTT GGA CAT CTG TCT CCT ACT GGC ACA	5838
1360	Trp Ile Gln Tyr Lys Glu Gly Phe Gly His Leu Ser Pro Thr Gly Thr	
1361	235 240 245	
1362	233 240 243	
	ACA CAN THEN THE ONE CON AND CAR AND AND CAN THE CAN THE AND ACC ACA CAR	5006
1363	ACA GAA TTT TGG CTG GGA AAT GAG AAG ATT CAT TTG ATA AGC ACA CAG	5886
1364	Thr Glu Phe Trp Leu Gly Asn Glu Lys Ile His Leu Ile Ser Thr Gln	
1365	250 255 260 265	
1366		
1367	TCT GCC ATC CCA TAT GCA TTA AGA GTG GAA CTG GAA GAC TGG AAT GGC	5934
1368	Ser Ala Ile Pro Tyr Ala Leu Arg Val Glu Leu Glu Asp Trp Asn Gly	
1369	270 275 280	
1370		
1371	AGA ACC AG GTACTGTTTT GAAATGACTT CCAACTTTTT ATTGTAAAGA	5982
		2002
1372	Arg Thr Ser	
1373		
1374		
1375	TTGCCTGGAA TGTGCACTTT CCAACTATCA ATAGACAATG GCAAATGCAG CCTGACAAAT	6042
1376		
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1381	ACCATTCAGA GTAATAGCTA ATTACTGAAC TTTTAATCAG TCCCAGGAAT TGAGCATAAA	6222
1382		
1383	ATTATAATTT TATCTAGTCT AAATTACTAT TTCATGAAGC AGGTATTATT ATTAATCCCA	6282
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1389	ACAGCCTCTT CAGACTTCTC AGTGCCTTGA TGGCCATTTA TTCTGTCAAA TCATGAGCTA	6462
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1391	CCCTAAAAGT AAACCAGCTA GCTCTTTTGA TGATCTAGAG GCTTCTTTTT GCTTGAGATA	6522
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1393	TTTGAAGGTT TTAAGCATTG TTACCTAATT AAAATGCAGA AAAATATCCA ACCCTCTTGT	6582
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1397 1398	GGTTGGTTTT TAATCCAGAA AGTGCTATAG TCAGTAGACC TTCTTCTAGG AAAGGACCTT	6702
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1400	CCATTICCCA GCCACIGGAG ATTAGAAAAT AAGCTAAATA TTTTCTGGAA ATTTCTGTTC	0/02
1401	ATTCATTAAG GCCCATCCTT TCCCCCACTC TATAGAAGTG TTGTCCACTT GCACAATTTT	6822
1402	MITCHILIMO OCCUMICCII ICCCCMCIC IMMONIOTO ITOTCCACTI OCACANITII	OULL
1403	TTCCAGGAAA GAATCTCTCT AACTCCTTCA GCTCACATGC TTTGGACCAC ACAGGGAAGA	6882
1404		
1405	CTTTGATTGT GTAATGCCCT CAGAAGCTCT CCTTCTTGCC ACTACCACAC TGATTTGAGG	6942
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1409	TCCTTCAAGT TTTGTGCAAT AATTAAGGGT CACTCACTGT CAGATACTTT CTGTGATCTA	7062
1410		
1411	TGATAATGTG TGTGCAACAC ATAACATTTC AATAAAAGTA GAAAATATGA AATTAGAGTC	7122
1412	. NECES CS CS E. CECCS EMERGS. ECONOMIS CS SEC. 111.00.00.00.00.00.00.00.00.00.00.00.00.	
1413	ATCTACACAT CTGGATTTGA TCTTAGAATG AAACAAGCAA AAAAGCATCC AAGTGAGTGC	7182
1414 1415	AATTATTAGT TTTCAGAGAT GCTTCAAAGG CTTCTAGGCC CATCCCGGGA AGTGTTAATG	7242
1415	AATTATTAGT TITCAGAGAT GCTTCAAAGG CTTCTAGGCC CATCCCGGGA AGTGTTAATG	1444
1417	AGCTGTGGAC TGGTTCACAT ATCTATTGCC TCTTGCCAGA TTTGCAAAAA ACTTCACTCA	7302
1418	ACCIDITATE INCIDENCE ACTIVITIES INTO A TOTAL ACTIVITIES	7.502
1419	ATGAGCAAAT TTCAGCCTTA AGAAACAAAG TCAAAAATTC CAAGGAAGCA TCCTACGAAA	7362
1420		,
1421	GAGGGAACTT CTGAGATCCC TGAGGAGGGT CAGCATGTGA TGGTTGTATT TCCTTCTTCT	7422
1422		
1423	CAG T ACT GCA GAC TAT GCC ATG TTC AAG GTG GGA CCT GAA GCT GAC	7468
1424	Thr Ala Asp Tyr Ala Met Phe Lys Val Gly Pro Glu Ala Asp	
1425	285 290 295	
1426		
1427	AAG TAC CGC CTA ACA TAT GCC TAC TTC GCT GGT GGG GAT GCT GGA GAT	7516
1428	Lys Tyr Arg Leu Thr Tyr Ala Tyr Phe Ala Gly Gly Asp Ala Gly Asp	

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1482	AAGAAACICI AAGGGAAAAI GCIIGAICIG IGIGACCCGG GGCGCCAIGC CAGAGCIGIA	0/03
1483	GTTCATGCCA GTGTTGTGCT CTGACAAGCC TTTTACAGAA TTACATGAGA TCTGCTTCCC	8843
1484		
1485	TAGGACAAGG AGAAGGCAAA TCAACAGAGG CTGCACTTTA AAATGGAGAC ATAAAATAAC	8903
1486		
1487	ATGCCAGAAC CATTTCCTAA AGCTCCTCAA TCAACCAACA AAATTGTGCT TTCAAATAAC	8963
1488		
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1490		
1491	TGGTCCACAG CAGCTGAGTC CGGGATGGAT AAGCTTAGGG ACAGAGGCCA ATTAGGGAAC	9083
1492		01.40
1493 1494	TTTGGGTTTC TAGCCCTACT AGTAGTGAAT AAATTTAAAG TGTGGATGTG ACTATGAGTC	9143
1494	ACAGCACAGA TGTTGTTTAA TAATATGTTT ATTTTATAAA TTGATATTTT AGGAATCTTT	9203
1496	ACAGCACAGA IGIIGIIIAA IAAIAIGIII AIIIIAIAAA IIGAIAIIII AGGAAICIII	9203
1497	GGAGATATTT TCAGTTAGCA GATAATACTA TAAATTTTAT GTAACTGGCA ATGCACTTCG	9263
1498		2203
1499	TAATAGACAG CTCTTCATAG ACTTGCAGAG GTAAAAAGAT TCCAGAATAA TGATATGTAC	9323
1500		
1501	ATCTACGACT TGTTTTAG GT GGC ACT TAC TCA AAA GCA TCT ACT CCT AAT	9373
1502	Gly Gly Thr Tyr Ser Lys Ala Ser Thr Pro Asn	
1503	380 385	
1504		
1505	GGT TAT GAT AAT GGC ATT ATT TGG GCC ACT TGG AAA ACC CGG TGG TAT	9421
1506	Gly Tyr Asp Asn Gly Ile Ile Trp Ala Thr Trp Lys Thr Arg Trp Tyr	
1507	390 395 400	
1508	TGG 2TG 220 200 2GT 2TG 22G 2TG 2TG 2TG 2TG 2TG 2TG 2TG	0460
1509 1510	TCC ATG AAG AAA ACC ACT ATG AAG ATA ATC CCA TTC AAC AGA CTC ACA	9469
1511	Ser Met Lys Lys Thr Thr Met Lys Ile Ile Pro Phe Asn Arg Leu Thr 405 410 415	
1511	405 410 415	
1513	ATT GGA GAA GGA CAG CAA CAC CAC CTG GGG GGA GCC AAA CAG GTC AGA	9517
1514	Ile Gly Glu Gly Gln His His Leu Gly Gly Ala Lys Gln Val Arg	JJ = 1
1515	420 425 430 435	
1516		
1517	CCA GAG CAC CCT GCG GAA ACA GAA TAT GAC TCA CTT TAC CCT GAG GAT	9565
1518	Pro Glu His Pro Ala Glu Thr Glu Tyr Asp Ser Leu Tyr Pro Glu Asp	
1519	440 445 450	
1520		
1521	GAT TTG TAGAAAATTA ACTGCTAACT TCTATTGACC CACAAAGTTT CAGAAATTCT	9621
1522	Asp Leu	
1523		
1524		0.55-
1525	CTGAAAGTTT CTTCCTTTTT TCTCTTACTA TATTTATTGA TTTCAAGTCT TCTATTAAGG	9681
1526		0741
1527 1528	ACATTTAGCC TTCAATGGAA ATTAAAACTC ATTTAGGACT GTATTTCCAA ATTACTGATA	9741
1528	TCAGAGTTAT TTAAAAATTG TTTATTTGAG GAGATAACAT TTCAACTTTG TTCCTAAATA	9801
1530	TORONOTIAL TIAMAMITO TITATITONO GAGATAMONI TICANCITTO TICCIAMATA	2001

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1536 1537	TTTAATTCTT CTTTTTAAAT GGAGAAAATT ATGTCTTTTT AATATGGTTT TTGTTTTGTT	10041
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1540 1541	GGACTTTATC TGAACAGAGA GATATAATAT TTTTCCTATT GGACAATGGA CTTGCAAAGC	10161
1542 1543	TTCACTTCAT TTTAAGAGCA AAAGACCCCA TGTTGAAAAC TCCATAACAG TTTTATGCTG	10221
1544 1545	ATGATAATTT ATCTACATGC ATTTCAATAA ACCTTTTGTT TCCTAAGACT AGATACATGG	10281
1546 1547	TACCTTTATT GACCATTAAA AAACCACCAC TTTTTGCCAA TTTACCAATT ACAATTGGGC	10341
1548 1549	AACCATCAGT AGTAATTGAG TCCTCATTTT ATGCTAAATG TTATGCCTAA CTCTTTGGGA	10401
1550		
1551 1552	GTTACAAAGG AAATAGCAAT TATGGCTTTT GCCCTCTAGG AGATACAGGA CAAATACAGG	10461
1553 1554	AAAATACAGC AACCCAAACT GACAATACTC TATACAAGAA CATAATCACT AAGCAGGAGT	10521
1555 1556	CACAGCCACA CAACCAAGAT GCATAGTATC CAAAGTGCAG CTG	10564
1557 1558	(2) INFORMATION FOR SEQ ID NO:6:	
1559 1560	(i) SEQUENCE CHARACTERISTICS:	
1561	(A) LENGTH: 453 amino acids	
1562	(B) TYPE: amino acid	
1563	(D) TOPOLOGY: linear	
1564		
1565	(ii) MOLECULE TYPE: protein	
1566		
1567	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
1568		
1569	Met Ser Trp Ser Leu His Pro Arg Asn Leu Ile Leu Tyr Phe Tyr Ala	
1570	1 5 10 15	
1571 1572	Leu Leu Phe Leu Ser Ser Thr Cys Val Ala Tyr Val Ala Thr Arg Asp	
1572	20 25 30	
1574	20 25 30	
1575	Asn Cys Cys Ile Leu Asp Glu Arg Phe Gly Ser Tyr Cys Pro Thr Thr	
1576	35 40 45	
1577		
1578	Cys Gly Ile Ala Asp Phe Leu Ser Thr Tyr Gln Thr Lys Val Asp Lys	
1579	50 55 60	
1580	New York Clay Court on Clay New York 201 12 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
1581	Asp Leu Gln Ser Leu Glu Asp Ile Leu His Gln Val Glu Asn Lys Thr	

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1582	65					70					75					80
1583 1584 1585	Ser	Glu	Val	Lys	Gln 85	Leu	Ile	Lys	Ala	Ile 90	Gln	Leu	Thr	Tyr	Asn 95	Pro
1586 1587 1588 1589	Asp	Glu	Ser	Ser 100	Lys	Pro	Asn	Met	Ile 105	Asp	Ala	Ala	Thr	Leu 110	Lys	Ser
1590 1591 1592	Arg	Ile	Met 115	Leu	Glu	Glu	Ile	Met 120	Lys	Tyr	Glu	Ala	Ser 125	Ile	Leu	Thr
1593 1594 1595	His	Asp 130	Ser	Ser	Ile	Arg	Tyr 135	Leu	Gln	Glu	Ile	Tyr 140	Asn	Ser	Asn	Asn
1596 1597 1598	Gln 145	Lys	Ile	Val	Asn	Leu 150	Lys	Glu	Lys	Val	Ala 155	Gln	Leu	Glu	Ala	Gln 160
1599 1600 1601	Cys	Gln	Glu	Pro	Cys 165	Lys	Asp	Thr	Val	Gln 170	Ile	His	Asp	Ile	Thr 175	Gly
1602 1603 1604	Lys	Asp	Cys	Gln 180	Asp	Ile	Ala	Asn	Lys 185	Gly	Ala	Lys	Gln	Ser 190	Gly	Leu
1605 1606 1607	Tyr	Phe	Ile 195	Lys	Pro	Leu	Lys	Ala 200	Asn	Gln	Gln	Phe	Leu 205	Val	Tyr	Cys
1608 1609 1610	Glu	Ile 210	Asp	Gly	Ser	Gly	Asn 215	Gly	Trp	Thr	Val	Phe 220	Gln	Lys	Arg	Leu
1611 1612 1613	Asp 225	Gly	Ser	Val	Asp	Phe 230	Lys	Lys	Asn	Trp	Ile 235	Gln	Tyr	Lys	Glu	Gly 240
1614 1615 1616	Phe	Gly	His	Leu	Ser 245	Pro	Thr	Gly	Thr	Thr 250	Glu	Phe	Trp	Leu	Gly 255	Asn
1617 1618 1619	Glu	Lys	Ile	His 260	Leu	Ile	Ser	Thr	Gln 265	Ser	Ala	Ile	Pro	Tyr 270	Ala	Leu
1620 1621 1622	Arg	Val	Glu 275	Leu	Glu	Asp	Trp	Asn 280	Gly	Arg	Thr	Ser	Thr 285	Ala	Asp	Tyr
1623 1624 1625	Ala	Met 290	Phe	Lys	Val	Gly	Pro 295	Glu	Ala	Asp	Lys	Tyr 300	Arg	Leu	Thr	Tyr
1626 1627 1628	Ala 305	Tyr	Phe	Ala	Gly	Gly 310	Asp	Ala	Gly	Asp	Ala 315	Phe	Asp	Gly	Phe	Asp 320
1629 1630 1631	Phe	Gly	Asp	Asp	Pro 325	Ser	Asp	Lys	Phe	Phe 330	Thr	Ser	His	Asn	Gly 335	Met
1632	Gln	Phe	Ser	Thr	Trp	Asp	Asn	Asp	Asn	Asp	Lys	Phe	Glu	Gly	Asn	Cys

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1633			340					345					350			
1634 1635	Ala Glu	Gln	Δen	Glv	Ser	Glv	Trn	Trn	Mot	Λen	Lare	Cvc	uic	בות	Glv	
1636	nia dia	355	App	GLY	Der	Gry	360	110	Mec	ASII	цуз	365	1115	Ата	GIY	
1637																
1638	His Leu	Asn	Gly	Val	Tyr	Tyr	Gln	Gly	Gly	Thr	Tyr	Ser	Lys	Ala	Ser	
1639	370					375					380					
1640																
1641	Thr Pro	Asn	Gly	Tyr		Asn	Gly	Ile	Ile	_	Ala	Thr	Trp	Lys		
1642	385				390					395					400	
1643		_	_			_	1	-1		_	~		_	_,	_	
1644	Arg Trp	Tyr	Ser		гàг	гàг	Thr	Thr		ьys	шe	тте	Pro		Asn	
1645 1646				405					410					415		
1647	Arg Leu	Thr	Tla	Glaz	Glu	Clv	Gln	Gln.	ui c	Wic	T 011	G117	G1 v	ת 1 ת	Twa	
1648	Arg Leu	1111	420	Gry	GIU	GIY	GIII	425	птэ	птр	пеп	СТУ	430	Ата	гуѕ	
1649			420					723					430			
1650	Gln Val	Ara	Pro	Glu	His	Pro	Ala	Glu	Thr	Glu	Tvr	Asp	Ser	Len	Tvr	
1651		435					440				-1-	445			- 2 -	
1652												_				
1653	Pro Glu	Asp	Asp	Leu												
1654	450		_													
1655																
1656	(2) INF	ORMA'	rion	FOR	SEQ	ID 1	NO : 7	;								
1657		_														
1658	(i) SE														
1659				ENGTH				_	irs							
1660		-	-	YPE:												
1661 1662				rani				эте								
1663		()	<i>)</i> 10	OPOLO	JGI:	T T116	ear									
1664																
1665	(vii) IMI	MEDIA	ATE S	SOUR	CE:										
1666	(-		LONE :			oeta-	·lact	toglo	bul	in					
1667		•	•						- J							
1668					·											
1669	(xi) SE	QUEN	CE DE	ESCR.	IPTI	ON: S	SEQ :	ID NO	0:7:						
1670																
1671	ACGCGTG	TCG Z	ACCT	GCAG	ST C	AACG	GATC:	CTC	GTGT(CTGT	TTTC	CATG	TA (GTAC	CACACI	60
1672																
1673	GTTTTGG	TGG (CTGT	AGCT	rt cz	AGCT	ACAG:	CTC	GAAG'	CAT	AAA	3CCT(GT A	ACCT	CCAGCI	120
1674	anammam	ama .		~ ~ mm/	ar	nmam.	~ amar		~~~~	~~~~	3 CM			~~ ~~		
1675	CTGTTCT	CTC '	TCAA()'A'T'T	σT G'.	rrcr(JCTG.	. T.T.	JGGT(TTT'	AGT(±TCT(CA (CACA	41.1.1.1.1.	180
1676 1677	AGAATTG	արարար <i>(</i>	<u> ማ</u> መመረግ	די א כי יחיר	רי ייי	י עיטיחיב	ላአአካና	ר כאי	דרב כייזיי	משב)ב	սարար	יים א בטין	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ኋ እ ጥጥ/	<u>ግ</u> ርግ አ ጥጥረ	240
1678	AGMALIG	111 (3110	IAGI".		3 I GH	mm.	L GA	10010	AIDE	111.	GAI	י אט	ZWI I	SCHIIC	240
1679	AATCTGT	Δ Δ Δ	ЗСТА	CAGA	רב בי	ላርጥሮ፤	ል ጥጥ ርረ	; С тг	ልርጥ እ	траг	CAC	מידין	ACA :	ידבדב	ראאכידי	300
1680			~ ~ T17,	U.A.			0				J. 10					500
1681	TTCACAT	CTG '	TGAG	CATG	AT A	ratt:	rtcc	c cc	rcta:	FATC	ATC:	TCA	ATT (CCTC	CTATC	360
1682																
1683	GTTTCTT	TCA '	TTGC	AGTT	rt C	rgag'	raca(GT(CTTA	CACC	TCC	rtgg:	TA (GAGT	CATTC	420

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TCAGTATTTT ATTCCTTTGA TACAATTGTG AATGAGGTAA TTTTCTTAGT TTCTCTTTCT GATAGCTCAT TGTTAGTGTA TATATAGAAA AGCAACAGAT TTCTATGTAT TAATTTTGTA TCCTGCAACA GATTTCTATG TATTAATTTT GTATCCTGCT ACTTTACGGA ATTCACTTAT TAGCTTTTTG GTGACATCTT GAGGATTTTC TGAAGAAAAT GGCATGGTAT GGTAGGACAA GGTGTCATGT CATCTGCAAA CAGTGGCAGT TTTCCTTCTT CCCTTCCAAC CTGGATTTCT TTGATTTCTT TCTGTCTGAG TACGACTAGG ATTCCCAATA CTATACCGAA TAAAAGTGGC AAGAGTGGAC ATCCTTGTCT TATTTTTCTG ACCTTAGAGG AAATGCTTTC AGTTTTTCAC CATTAATTAT AATGTTTACT GTGGGCTTGT CATATGTGGC CTTCATTATA TGGAGGTCTA TTCCCTCTAT ACCCACCTTG TTGAGAGTTT TTATCATAAA AGTATGTTGA ATTTTGTCAA AAGTTTTTCC TGCATCTATT GAGATGATTT TTACTCTTCA ATTCATTAAT GATTTTTATT CTTCATTTTG TTAATGATTT CCATTCTTCA ATTTGTTAAC GTGGTATATC ACATTGATTG ATTTGTGGAT ACCTTGTAT CCCTGGGATA AACCTCACTT GATCATGAGC TTTCAATGTA TTTTTGAATT CACTTTGCTA ATATTCTGTT GGGTATTTTT GCATCTCTAT TCATCAATGA TATTGGCCTA AGAAAGGTTT TGTCTGGTTT TAGTATCAGG GTGATGCTGG CCTCATAGAG AGAGTTTAGA AGCATTTCCT CCTCTTTGAT TTTTCGGAAT AGTTTGAGTA GGATAGGTAT TAACTCTTCT TTAAATGTTT GGGGACTTCC CTGGTGAGCC GGTGGTTGAG AATCCGCCTC AGGGATGTGG GTTTGATCCC TGGTCAGGGA ACCATTAATA AGATCCCACA TGCTGCAGGC AACAAGCCCC CAAGCTGCAA CCACTGAGCT GCAACCGCTG CAGTGCCCAC AGGCCACGAC CAGAGAAAGC CCACATACAG CAGGGAAGAC CCAGCACAAC CGGAAAAAGG AGTTTGGTGG AATACAGCTG TGAAGCCGTC TGGTCCTGGA CTCCTGCTTG AGGGAATTTT TTAAAAATTA TTGATTCAAT TTCATTACTG GTAACTGGTC TGTTCATATT TTCTATTTCT TCCGGGTTCA GTCTTGGGAG ATTGTACATG CCTAGGAATG TGTCCGTTTC TTCTAGGTTG TCCATTTTAT TGGACATGCA TGGGAGCACA CAGCACCGAC CAGCGAGACT CATGCTGGCT TCCTGGGGCC

AGGCTGGGGC CCCAAGCAGC ATGGCATCCT AGAGTGTGTG AAAGCCCACT GACCCTGCCC

AGCCCCACAA TTTCATTCTG AGAAGTGATT CCTTGCTTCT GCACTTACAG GCCCAGGATC

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1735	TGACCTGCTT	CTGAGGAGCA	GGGGTTTTGG	CAGGACGGGG	AGATGCTGAG	AGCCGACGGG	1980
1736		~~~~~~~			GDDGGGGGG		
1737	GGTCCAGGTC	CCCTCCCAGG	CCCCCCTGTC	TGGGGCAGCC	CTTGGGAAAG	ATTGCCCCAG	2040
1738 1739	mamaaamaam	ACAGTGGTCA	amagaa aama	acaan acaaan	CACCOCCOO	A TITUTO COMOTI	2100
1740	TCTCCCTCCT	ACAGTGGTCA	GTCCCAGCTG	CCCCAGGCCA	GAGCTGCTTT	ATTTCCGTCT	2100
1741	СФСФСФСФССС	ATGGTATTCT	משממא אממשמ	አ አ ርርጥጥርርጥር	አ አ ር ጥጥ አ ጥር አ አ	መእ ሮርመመመሮርር	2160
1742	CICICICIGG	AIGGIAIICI	CIGGAAGCIG	AAGGIICCIG	AAGITATGAA	IAGCITIGCC	2160
1743	CTGAAGGGCA	TGGTTTGTGG	ጥሮ እርርርጥጥሮ አ	СУССУУСТТС	ССРСТС	СУССТСУСУС	2220
1744	C10121000C11	1001110100	101100011011	cricorniciro	CONGRECCIO	CHOCICHONC	2220
1745	GTCCCGAGAT	TGGTGGCACC	CAGATTTCCT	AAGCTCGCTG	GGGAACAGGG	CGCTTGTTTC	2280
1746							
1747	TCCCTGGCTG	ACCTCCCTCC	TCCCTGCATC	ACCCAGTTCT	GAAAGCAGAG	CGGTGCTGGG	2340
1748							
1749	GTCACAGCCT	CTCGCATCTA	ACGCCGGTGT	CCAAACCACC	CGTGCTGGTG	TTCGGGGGGC	2400
1750							
1751	TACCTATGGG	GAAGGGCTTC	TCACTGCAGT	GGTGCCCCCC	GTCCCCTCTG	AGATCAGAAG	2460
1752							
1753	TCCCAGTCCG	GACGTCAAAC	AGGCCGAGCT	CCCTCCAGAG	GCTCCAGGGA	GGGATCCTTG	2520
1754	~~~~~~~				~-~~		
1755	CCCCCCCCCT	GCTGCCTCCA	GCTCCTGGTG	CCGCACCCTT	GAGCCTGATC	TTGTAGACGC	2580
1756	CMC3 CMCM3 C	mamamaaama	acmammas as	aaaammamaa	003 mamagaa	maaamamaaa	0640
1757	CTCAGTCTAG	TCTCTGCCTC	CGTGTTCACA	CGCCTTCTCC	CCATGTCCCC	TCCGTGTCCC	2640
1758 1759	CCTTTTTTCTCT	CACAAGGACA	CCCCACATTA	CATTACCCCC	TOTT CON COC	TO A COTTON A C	2700
1760	CGITITCICI	CACAAGGACA	CCGGACATTA	GATTAGCCCC	IGIICCAGCC	TCACCIGAAC	2700
1761	Δαστοδοδτο	TGTAAAGACC	тасаттесаа	ACAAGATTCC	A A C CTCA A CT	тесесствей	2760
1762	11001011110	1011111101100	monifican	пеннонттее	AACCIGAAGI	ICCCGGIOGA	2,00
1763	TGTGAGTTCT	GGGGCGACAT	CCTTCAACCC	CATCACAGCT	TGCAGTTCAT	CGCAAAACAT	2820
1764							
1765	GGAACCTGGG	GTTTATCGTA	AAACCCAGGT	TCTTCATGAA	ACACTGAGCT	TCGAGGCTTG	2880
1766							
1767	TTGCAAGAAT	TAAAGGTGCT	AATACAGATC	AGGGCAAGGA	CTGAAGCTGG	CTAAGCCTCC	2940
1768							
1769	TCTTTCCATC	ACAGGAAAGG	GGGGCCTGGG	GGCGGCTGGA	GGTCTGCTCC	CGTGAGTGAG	3000
1770							
1771	CTCTTTCCTG	CTACAGTCAC	CAACAGTCTC	TCTGGGAAGG	AAACCAGAGG	CCAGAGAGCA	3060
1772	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 CDDD3 CC3 C	1 aaaama11 a	CTCC1 CCC1 1	a. maama. aa		2100
1773 1774	AGCCGGAGCT	AGTTTAGGAG	ACCCCTGAAC	CTCCACCCAA	GATGCTGACC	AGCCAGCGGG	3120
1775	СССССТССЛЛ	AGACCCTACA	сттелессе	CAACACCCCC	TCACCCCCCA	ССТСССТССТ	3180
1776	CCCCCIGGAA	AGACCCIACA	GIICAGGGGG	CANDAGGGC	IGACCCGCCA	ddiccoidei	3100
1777	ATCAGGAGAC	ATCCCCGCTA	TCAGGAGATT	CCCCCACCTT	GCTCCCGTTC	CCCTATCCCA	3240
1778							
1779	ATACGCCCAC	CCCACCCCTG	TGATGAGCAG	TTTAGTCACT	TAGAATGTCA	ACTGAAGGCT	3300
1780							
1781	TTTGCATCCC	CTTTGCCAGA	GGCACAAGGC	ACCCACAGCC	TGCTGGGTAC	CGACGCCCAT	3360
1782							
1783	GTGGATTCAG	CCAGGAGGCC	TGTCCTGCAC	CCTCCCTGCT	CGGGCCCCCT	CTGTGCTCAG	3420
1784							
1785	CAACACACCC	AGCACCAGCA	TTCCCGCTGC	TCCTGAGGTC	TGCAGGCAGC	TCGCTGTAGC	3480

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1706							
1786 1787	СТСАССССТС	TGGAGGGAAG	тстсстссса	מממממידיים	CTCACACCC	CCACCTCCCA	3540
1788	CIGACCOCIO	TOUROUGHAG	IGICCIGGGA	OATTIAAAT	GIGAGAGGCG	GOAGGIGGGA	3340
1789	GGTTGGGCCC	TGTGGGCCTG	CCCATCCCAC	GTGCCTGCAT	TAGCCCCAGT	GCTGCTCAGC	3600
1790							
1791	CGTGCCCCCG	CCGCAGGGGT	CAGGTCACTT	TCCCGTCCTG	GGGTTATTAT	GACTCTTGTC	3660
1792							
1793	ATTGCCATTG	CCATTTTTGC	TACCCTAACT	GGGCAGCAGG	TGCTTGCAGA	GCCCTCGATA	3720
1794							
1795 1796	CCGACCAGGT	CCTCCCTCGG	AGCTCGACCT	GAACCCCATG	TCACCCTTGC	CCCAGCCTGC	3780
1796	A CA CCCTCCC	TGACTGCAGA	CATCCCTTCA	CCCAACCCCA	CCCTCACATC	CTTTCCACCA	3840
1798	AGAGGG1GGG	IGACIGCAGA	GATCCCTTCA	CCCAAGGCCA	CGGTCACATG	GIIIGGAGGA	3040
1799	GCTGGTGCCC	AAGGCAGAGG	CCACCCTCCA	GGACACACCT	GTCCCCAGTG	CTGGCTCTGA	3900
1800							
1801	CCTGTCCTTG	TCTAAGAGGC	TGACCCCGGA	AGTGTTCCTG	GCACTGGCAG	CCAGCCTGGA	3960
1802							
1803	CCCAGAGTCC	AGACACCCAC	CTGTGCCCCC	GCTTCTGGGG	TCTACCAGGA	ACCGTCTAGG	4020
1804							
1805 1806	CCCAGAGGGG	ACTTCCTGCT	TGGCCTTGGA	TGGAAGAAGG	CCTCCTATTG	TCCTCGTAGA	4080
1807	GGAAGCCACC	CCGGGGCCTG	ACCATCACCC	አ ልርጥርርርልጥጥ	CCGGGAACCG	ССТСССТССС	4140
1808	dormocence	CC0000CC10	AGGATGAGCC	AMOTOGOMIT	CCGGGAACCG	0010001000	4140
1809	GGCCCAGCCC	GGGCTGGCTG	GCCTGCATGC	CTCCTGTATA	AGGCCCCAAG	CCTGCTGTCT	4200
1810							
1811	CAGCCCTCCA	CTCCCTGCAG	AGCTCAGAAG	CACGACCCCA	GGGATATCCC	TGCAGCCATG	4260
1812							
1813	AAGTGCCTCC	TGCTTGCCCT	GGGCCTGGCC	CTCGCCTGTG	GCGTCCAGGC	CATCATCGTC	4320
1814	7.0007.07.007	man nagaam	GG 3 G 3 E GG 3 G	3 3 CCMMCC3 C	aammaaaaaa	CECCCE CECE	4200
1815 1816	ACCCAGACCA	TGAAAGGCCT	GGACATCCAG	AAGGTTCGAG	GGTTGGCCGG	GTGGGTGAGT	4380
1817	TGCAGGGGGG	GCAGGGGAGC	тесесстсае	AGAGCCA AGA	СРССТСТСР	ССТТСССТТС	4440
1818	10011000000	0010000100	1000001010	none comon	diddeididi	0011000110	1110
1819	CCATCAGTCA	GCTAGGGCCA	CCTGACAAAT	CCCCGCTGGG	GCAGCTTCAA	CCAGGCGTTC	4500
1820							
1821	ACTGTCTTGC	ATTCTGGAGG	CTGGAAGCCC	AAGATCCAGG	TGTTGGCAGG	GCTGGCTTCT	4560
1822							
1823	CCTGCGGCCG	CTCTCTGGGG	AGCAGACGGC	CGTCTTCTCC	AGTCCTCTGC	GCGCCCTGAT	4620
1824 1825	ጥጥርረጥርጥጥርር	TGTGAGGCCA	CCACCCCTCC	שרים א א מארים	CCTCCCTCCC	CACCTTCACA	4680
1826	TICCICTICC	IGIGAGGCCA	CCAGGCCIGC	IGGAAACACG	CCIGCCIGCG	CAGCIICACA	4000
1827	CGACCTTTGT	CATCTCTTTA	AAGGCCATGT	CTCCAGAGTC	ATGTGTTGAA	GTTCTGGGGG	4740
1828							
1829	TTAGTGGGAC	ACAGTTCAGC	CCCTAAAAGA	GTCTCTCTGC	CCCTCAAATT	TTCCCCACCT	4800
1830							
1831	CCAGCCATGT	CTCCCCAAGA	TCCAAATGTT	GCTACATGTG	GGGGGGCTCA	TCTGGGTCCC	4860
1832		03 0mc=c3 c=	amaaaaa aa a	armmaaaa a	GGTTGG3 G3 G3	magaaaaa am	4000
1833 1834	TCTTTGGGTT	CAGTGTGAGT	CTGGGGAGAG	CATTCCCCAG	GGTGCAGAGT	TGGGGGAGT	4920
1835	ATCTCAGGCC	TGCCCAGGCC	GGGGTGGGAC	AGAGAGCCC A	СТСТСССССТ	СССССССССТ	4980
1836			CCCCICCOAC		0101000001	3333355551	100

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TCCCACCCC AGAGTGCAAC TCAAGGTCCC TCTCCAGGTG GCGGGGACTT GGCACTCCTT GGCTATGGCG GCCAGCGACA TCTCCCTGCT GGATGCCCAG AGTGCCCCCC TGAGAGTGTA CGTGGAGGAG CTGAAGCCCA CCCCCGAGGG CAACCTGGAG ATCCTGCTGC AGAAATGGTG GGCGTCTCTC CCCAACATGG AACCCCCACT CCCCAGGGCT GTGGACCCCC CGGGGGGTGG GGTGCAGGAG GGACCAGGGC CCCAGGGCTG GGGAAGAGGG CTCAGAGTTT ACTGGTACCC GGCGCTCCAC CCAAGGCTGC CCACCCAGGG CTTTTTTTTT TTTTAAACTT TTATTAATTT GATGCTTCAG AACATCATCA AACAAATGAA CATAAAACAT TCATTTTTGT TTACTTGGAA GGGGAGATAA AATCCTCTGA AGTGGAAATG CATAGCAAAG ATACATACAA TGAGGCAGGT ATTCTGAATT CCCTGTTAGT CTGAGGATTA CAAGTGTATT TGAGCAACAG AGAGACATTT TCATCATTTC TAGTCTGAAC ACCTCAGTAT CTAAAATGAA CAAGAAGTCC TGGAAACGAA GCAGTGTGGG GATAGGCCCG TGTGAAGGCT GCTGGGAGGC AGCAGACCTG GGTCTTCGGG CTCAAGCAGT TCCCGCTACC AGCCCTGTCC ACCTCAGACG GGGGTCAGGG TGCAGGAGAG AGCTGGATGG GTGTGGGGGC AGAGATGGGG ACCTGAACCC CAGGGCTGCC TTTTGGGGGT GCCTGTGGTC AAGGCTCTCC CTGACCTTTT CTCTCTGGCT TCATCTGACT TCTCCTGGCC CATCCACCCG GTCCCCTGTG GCCTGAGGTG ACAGTGAGTG CGCCGAGGCT AGTTGGCCAG CTGGCTCCTA TGCCCATGCC ACCCCCTCC AGCCCTCCTG GGCCAGCTTC TGCCCCTGGC CCTCAGTTCA TCCTGATGAA AATGGTCCAT GCCAATGGCT CAGAAAGCAG CTGTCTTTCA GGGAGAACGG CGAGTGTGCT CAGAAGAAGA TTATTGCAGA AAAAACCAAG ATCCCTGCGG TGTTCAAGAT CGATGGTGAG TCCGGGTCCC TGGGGGACAC CCACCACCC CGCCCCGGG GACTGTGGAC AGGTTCAGGG GGCTGGCGTC GGGCCCTGGG ATGCTAAGGG ACTGGTGGTG ATGAAGACAC TGCCTTGACA CCTGCTTCAC TTGCCTCCCC TGCCACCTGC CCGGGGCCTT GGGGCGTGG CCATGGGCAG GTCCCGGCTG GCGGGCTAAC CCACCAGGGT GACACCCGAG CTCTCTTTGC TGGGGGGGGG GCGGTGCTCT GGGCCCTCAG GCTGAGCTCA GGAGGTACCT GTGCCCTCCC AGGGGTAACC GAGAGCCGTT GCCCACTCCA GGGGCCCAGG TGCCCCACGA CCCCAGCCG CTCCACAGCT CCTTCATCTC CTGGAGACAA ACTCTGTCCG CCCTCGCTCA TTCACTTGTT CGTCCTAAAT CCGAGATGAT AAAGCTTCGA GGGGGGGTTG GGGTTCCATC

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1888							
1889	AGGGCTGCCC	TTCCGCCGGG	CAGCCTGGGC	CACATCTGCC	CTTGGCCCCC	TCAGGACTCA	6600
1890							
1891	CTCTGACTGG	AGGCCCTGCA	CTGACTGACG	CCAGGGTGCC	CAGCCCAGGG	TCTCTGGCGC	6660
1892							
1893	CATCCAGCTG	CACTGGGTTT	GGGTGCTGGT	CCTGCCCCCA	AGCTGCCCGG	ACACCACAGG	6720
1894							
1895	CAGCCGGGGC	TGCCCACTGG	CCTCGGTCAG	GGTGAGCCCC	AGCTGCCCCC	GCTCAGGGCT	6780
1896							
1897	TGCCCCGACA	ATGACCCCAT	CCTCAGGACG	CACCCCCTT	CCCTTGCTGG	GCAGTGTCCA	6840
1898							
1899	GCCCCACCCG	AGATCGGGGG	AAGCCCTATT	TCTTGACAAC	TCCAGTCCCT	GGGGGAGGG	6900
1900							
1901	GCCTCAGACT	GAGTGGTGAG	TGTTCCCAAG	TCCAGGAGGT	GGTGGAGGGT	CCTGGCGGAT	6960
1902							
1903	CCAGAGTTGA	CAGTGAGGGC	TTCCTGGGCC	CCATGCGCCT	GGCAGTGGCA	GCAGGGAAGA	7020
1904							
1905	GGAAGCACCA	TTTCAGGGGT	GGGGGATGCC	AGAGGCGCTC	CCCACCCCGT	CTTCGCCGGG	7080
1906							
1907	TGGTGACCCC	GGGGGAGCCC	CGCTGGTCGT	GGAGGGTGCT	GGGGGCTGAC	TAGCAACCCC	7140
1908							=
1909	Teeceecee	TTGGAACTCA	CTTTTCTCCC	GTCTTGACCG	CGTCCAGCCT	TGAATGAGAA	7200
1910	a amaamm	amaamaas as	~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	maarraa	TO 60
1911	CAAAGTCCTT	GTGCTGGACA	CCGACTACAA	AAAGTACCTG	CTCTTCTGCA	TGGAAAACAG	7260
1912	maamar aaaa	G2.GG2.2.2.GGG	maaaamaaa	amacamaaam	GGGTTGGGAAAG	аатааатааа	7220
1913	TGCTGAGCCC	GAGCAAAGCC	TGGCCTGCCA	GIGCCIGGGI	GGGTGCCAAC	CCIGGCIGCC	7320
1914 1915	CACCCACACA	ластасства	тааттаатаа	3 3 C 3 C C C C C C C	аааааатааа	a commo a moo	7380
1916	CAGGGAGACC	AGCTGCGTGG	ICCITGCIGC	AACAGGGGGI	9999991999	AGCIIGAICC	/300
1917	CCACCACCAC	GAGGGGTGGG	CCCTCCCTCX	CECCCCCC	CACACACTCC	TO CONTRACTO	7440
1917	CCAGGAGGAG	GAGGGGTGGG	GGGTCCCTGA	GICCCGCCAG	GAGAGAGIGG	TCGCATACCG	7440
1919	CCACCCACTC	TGCTGTGGGC	СПСПСССПСС	CTCCCCACCC	GGGCCAGACA:	CACACCCCC	7500
1920	GGAGCCAGIC	1001010000	C1G1GGG1GG	CIGGGGACGG	GGGCCAGACA	CACAGGCCGG	7300
1921	GAGACGGGTG	GGCTGCAGAA	רייתיית <i>ב</i> ריית מ	тстсассстс	CCCATGCCC	СССТССТСАС	7560
1922	OAGACGGGTG	GGCTGCAGAA	CIGIGACIGG	IGIGACCGIC	GCGATGGGGC	COOTOGICAC	7300
1923	тсаатстаас	AGCCTTTGTT	ACCGGGGAGT	ጥጥሮ አ አጥጥ አጥጥ	тсссаааата	AGAACTCAGG	7620
1924	101111011110		necocomor	110/11/11/11	10001111111	1101111010100	,020
1925	TACAAAGCCA	TCTTTCAACT	ATCACATCCT	GAAAACAAAT	GGCAGGTGAC	ATTTTCTGTG	7680
1926		-00		0.2.2.0	000110010110		, , , ,
1927	CCGTAGCAGT	CCCACTGGGC	ATTTTCAGGG	CCCCTGTGCC	AGGGGGGCGC	GGGCATCGGC	7740
1928							
1929	GAGTGGAGGC	TCCTGGCTGT	GTCAGCCGGC	CCAGGGGGAG	GAAGGGACCC	GGACAGCCAG	7800
1930							
1931	AGGTGGGGG	CAGGCTTTCC	CCCTGTGACC	TGCAGACCCA	CTGCACTGCC	CTGGGAGGAA	7860
1932							
1933	GGGAGGGGAA	CTAGGCCAAG	GGGGAAGGGC	AGGTGCTCTG	GAGGGCAAGG	GCAGACCTGC	7920
1934							
1935	AGACCACCCT	GGGGAGCAGG	GACTGACCCC	CGTCCCTGCC	CCATAGTCAG	GACCCCGGAG	7980
1936							
1937	GTGGACAACG	AGGCCCTGGA	GAAATTCGAC	AAAGCCCTCA	AGGCCCTGCC	CATGCACATC	8040
1938							

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1939	ССССТТСССТ	TCAACCCGAC	ССРССТССРС	GGTGAGCACC	CAGGCCCCGC	ርርጥጥርርርር አር	8100
1940	0000110001	TOPMOCCORC	cchocidana	GOTOAGCACC	CAROCCCCCC	CCTTCCCCAG	0100
1941	GGCAGGAGCC	ACCCGGCCCC	GGGACGACCT	CCTCCCATGG	TGACCCCCAG	CTCCCCAGGC	8160
1942		*					
1943	CTCCCAGGAG	GAAGGGGTGG	GGTGCAGCAC	CCCGTGGGG	CCCCCTCCCC	ACCCCCTGCC	8220
1944 1945	AGGCCTCTCT	TCCCGAGGTG	тссъстсссъ	ጥርርጥር አርርርር	СССАТСАСТС	TCCCTCCCCC	8280
1946	nooccicici	receditorio	rechorecen	10010110000	0000010	100010000	0200
1947	ACAGGGCAGT	GCCACGTCTÀ	GGTGAGCCCC	TGCCGGTGCC	TCTGGGGTAA	GCTGCCTGCC	8340
1948							
1949	CTGCCCCACG	TCCTGGGCAC	ACACATGGGG	TAGGGGGTCT	TGGTGGGGCC	TGGGACCCCA	8400
1950 1951	CATCAGGCCC	TGGGGTCCCC	ССТСТСАСАА	тесстесь ле	СТССССТССС	тестесскае	8460
1952	CATCAGGCCC	1000010000	CCIGIGAGAA	TOUCTUGAAG	0100001000	ICCIGGCGAC	0400
1953	TGCAGAGCTG	GCTGGCCGCG	TGCCACTCTT	GTGGGTGACC	TGTGTCCTGG	CCTCACACAC	8520
1954							
1955	TGACCTCCTC	CAGCTCCTTC	CAGCAGAGCT	AAGGCTAAGT	GAGCCAGAAT	GGTACCTAAG	8580
1956 1957	CCCACCCTAC	CGGTCCTTCT	CCCCA CCA CC	COCTOTOTO	CAACCACCAC	CCAMCCACAC	0640
1958	GGGAGGCIAG	CGGICCIICI	CCCGAGGAGG	GGCIGICCIG	GAACCACCAG	CCAIGGAGAG	8640
1959	GCTGGCAAGG	GTCTGGCAGG	TGCCCCAGGA	ATCACAGGGG	GGCCCCATGT	CCATTTCAGG	8700
1960							
1961	GCCCGGGAGC	CTTGGACTCC	TCTGGGGACA	${\tt GACGACGTCA}$	CCACCGCCCC	CCCCCATCA	8760
1962							
1963 1964	GGGGGACTAG	AAGGGACCAG	GACTGCAGTC	ACCCTTCCTG	GGACCCAGGC	CCCTCCAGGC	8820
1965	CCCTCCTGGG	GCTCCTGCTC	TGGGCAGCTT	CTCCTTCACC	AATAAAGGCA	TAAACCTGTG	8880
1966				0-000100			
1967	$\mathtt{CTCTCCCTTC}$	${\tt TGAGTCTTTG}$	${\tt CTGGACGACG}$	GGCAGGGGGT	${\tt GGAGAAGTGG}$	TGGGGAGGGA	8940
1968							
1969 1970	GTCTGGCTCA	GAGGATGACA	GCGGGGCTGG	GATCCAGGGC	GTCTGCATCA	CAGTCTTGTG	9000
1970	ACAACTGGGG	GCCCACACAC	א ירארידפרפפ	ርጥርጥጥጥር ል ል ል	רידידיר <i>א</i> ככ א	CCAGGGAGGG	9060
1972	11012101000	0000110110110		CICIIIGIAA	C111C11CC1	ccnoconoco	3000
1973	ACTCGGCAGA	GACATCTGCC	AGTTCACTTG	GAGTGTTCAG	TCAACACCCA	AACTCGACAA	9120
1974							
1975	AGGACAGAAA	GTGGAAAATG	GCTGTCTCTT	AGTCTAATAA	ATATTGATAT	GAAACTCAAG	9180
1976 1977	ттсстсатсс	ATCAATATGC	СТТТАТСАТС	CAGCCAGCCA	СТАСТСТССТ	ልጥሮል ልሮጥሮልጥ	9240
1978	TIGGTEMICG	HICHHINIC	CITIATORIC	CAGCCAGCCA	CIACIOICGI	nicancieni	2240
1979	GTACCCAAAC	GCACTGATCT	GTCTGGCTAA	TGATGAGAGA	TTCCCAGTAG	AGAGCTGGCA	9300
1980							
1981	AGAGGTCACA	GTGAGAACTG	TCTGCACACA	CAGCAGAGTC	CACCAGTCAT	CCTAAGGAGA	9360
1982 1983	TC7 CTCCTCC	TGTTCATTGG	አርርእርሞርእሞር	መመሮስ አረረመሮስ	አ አ ርጥሮር አ አጥር	מיייים מיים אריים ביים אריים ביים ביים ביים ביים ביים ביים ביים ב	9420
1984	TCAGTCCTGG	IGIICAIIGG	AGGACIGAIG	IIGAAGCIGA	AACICCAAIG	CITIGGCCAC	3420
1985	CTGATGTGAA	GAGCTGACTC	ATTTGAAAAG	ACCCTGATGC	TGGGAAAGAT	TGAGGGCAGG	9480
1986							
1987	AGGAGAAGGG	GACGACAGAG	GATGAGATGG	TTGGATGGCA	TCACCAACAC	AATGGACATG	9540
1988	COMMINGOOMO	CA CTCCA CCA	ammaama» ma	CA CACCCA CC	aamaaaamaa	TIN COON N COO	0600
1989	GGIIIGGGIG	GACTCCAGGA	GITGGTGATG	GACAGGGAGG	CCTGGCGTGC	TACGGAAGCG	9600

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		•					
1990							
1991	GTTTATGGGG T	CACAAAGAC	TGAGTGACTG	AACTGAGCTG	AACTGAATGG	AAATGAGGTA	9660
1992		~~~~					
1993 1994	TACAGCAAAG TO	GGGGATTTT	TTAGATAATA	AGAATATACA	CATAACATAG	TGTATACTCA	9720
1994	TATTTTTATG C	እ ጥ እ <i>ር/ር</i> ርምረግ እ	THE COTT OF THE A	CTC A CTC CTT A	mama a amama	man aamn maa	0700
1996	TATTITIALG CA	AIACCIGAA	IGCICAGICA	CICAGICGIA	TCTGACTCTG	TGACCTATGG	9780
1997	ACCGTAGCCT TO	CCAGGTTTC	ттстстссас	AGAATTCTCC	AAGGCAAGAA	тастесаете	9840
1998		00.1001110				11.01001.010	3010
1999	GGTAGCCATT TO	CCTCCTCCA	GGGGATCCTC	CCGACCCAGG	GATTGAACCG	GCATCTCCTG	9900
2000							
2001	TATTGGCAGG TO	GGATTCTTT	ACCACTGTGC	CACCAGGGAA	${\tt GCCCGTGTTA}$	CTCTCTATGT	9960
2002							
2003	CCCACTTAAT T	ACCAAAGCT	GCTCCAAGAA	AAAGCCCCTG	TGCCCTCTGA	GCTTCCCGGC	10020
2004	cmcc2 c2 ccc =	~~~~~~					
2005	CTGCAGAGGG TO	GGTGGGGGT	AGACTGTGAC	CTGGGAACAC	CCTCCCGCTT	CAGGACTCCC	10080
2006 2007	GGGCCACGTG A	CCC3	CTCCACACAC	CCCCCTTACCTT	CITIC CITIC CITIC N	A CCCCCCA CCC	10140
2007	GGGCCACGIG A	CCCACAGIC	CIGCAGACAG	CCGGGIAGCI	CIGCICITCA	AGGCICATTA	10140
2009	TCTTTAAAAA AA	AACTGAGGT	СТАТТТСТС	∆ CTTCGCTGC	ССТАВСТТСТ	GAACATCCAG	10200
2010						0.2.0	10200
2011	TGCGATGGAC AG	GGACCTCCT	CCCCAGGCCT	CAGGGGCTTC	AGGGAGCCAG	CCTTCACCTA	10260
2012							
2013	TGAGTCACCA G	ACACTCGGG	GGTGGCCCCG	CCTTCAGGGT	GCTCACAGTC	TTCCCATCGT	10320
2014							
2015	CCTGATCAAA G	AGCAAGACC	AATGACTTCT	TAGGAGCAAG	CAGACACCCA	CAGGACACTG	10380
2016	1.00mma1.001 a		amaammmaa		1 G1 G1 G G G G G G		
2017 2018	AGGTTCACCA G	AGCTGAGCT	GTCCTTTTGA	ACCTAAAGAC	ACACAGCTCT	CGAAGGTTTT	10440
2018	CTCTTTAATC TO	ርር እጥጥጥ እር	ርርርጥ እርጥጥርር	CCCTCAACAC	CCAACACACT	CCTCCATCTC	10500
2020	CICITIANIC I	GGATTIAAG	GCCIACITGC	CCCTCAAGAG	GGAAGACAGI	CCIGCAIGIC	10500
2021							
2022	CCCAGGACAG C	CACTCGGTG	GCATCCGAGG	CCACTTAGTA	TTATCTGACC	GCACCCTGGA	10560
2023							
2024	ATTAATCGGT CO	CAAACTGGA	CAAAAACCTT	GGTGGGAAGT	TTCATCCCAG	AGGCCTCAAĆ	10620
2025							
2026	CATCCTGCTT TO	GACCACCCT	GCATCTTTTT	TTCTTTTATG	TGTATGCATG	TATATATATA	10680
2027							
2028	TATATATTTT T	TTTTTTTC	ATTTTTTGGC	TGTGCTGGCT	GTTCGTTGCA	GTTCGGTGCG	10740
2029 2030	CAGGCTTCTC TO	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CTCTA CTCTT	CITICITIES THE S	7 C 7 C C 7 C T C T	CITA CA CCA IIIC	10000
2030	CAGGCITCIC IN	CIAGIIICI	CICIAGICII	CICITATCAC	AGAGCAGICI	CIAGACGAIC	10800
2032	GACGCGT						10807
2033							
2034	(2) INFORMAT	ION FOR SE	Q ID NO:8:				
2035							
2036			RACTERISTICS				
2037			47 base pai	irs			
2038			cleic acid				
2039			NESS: singl	Le			
2040	(D)) TOPOLOGY	: linear				

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2041		
2042		
2043		
2044	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
2045		
2046	AATTCCGATC GACGCGTCGA CGATATACTC TAGACGATCG ACGCGTA	47
2047		
2048	(2) INFORMATION FOR SEQ ID NO:9:	
2049		
2050	(i) SEQUENCE CHARACTERISTICS:	
2051	(A) LENGTH: 24 base pairs	
2052	(B) TYPE: nucleic acid	
2053	(C) STRANDEDNESS: single	
2054	(D) TOPOLOGY: linear	
2055		
2056		
2057	(vii) IMMEDIATE SOURCE:	
2058	(B) CLONE: BLGAMP3	
2059		
2060		
2061	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
2062		
2063	TGGATCCCCT GCCGGTGCCT CTGG	24
2064		
2065		
2066	(2) INFORMATION FOR SEQ ID NO:10:	
2067	-	
2068	(i) SEQUENCE CHARACTERISTICS:	
2069	(A) LENGTH: 24 base pairs	
2070	(B) TYPE: nucleic acid	
2071	(C) STRANDEDNESS: single	
2072	(D) TOPOLOGY: linear	
2073	(-,	
2074		
2075	(vii) IMMEDIATE SOURCE:	
2076	(B) CLONE: BLGAMP4	
2077	(a)	
2078		
2079	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
2080	(
2081	AACGCGTCAT CCTCTGTGAG CCAG	24
2082		
2083	(2) INFORMATION FOR SEQ ID NO:11:	
2084	_,	
2085	(i) SEQUENCE CHARACTERISTICS:	
2086	(A) LENGTH: 10 base pairs	
2087	(B) TYPE: nucleic acid	
2088	(C) STRANDEDNESS: single	
2089	(D) TOPOLOGY: linear	
2090	· · · · · · · · · · · · · · · · · · ·	
2091		

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2092 2093 2094 2095	(vii)	IMMEDIATE SOURCE: (B) CLONE: ZC6839	
2096 2097	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:11:	
2098	ACTACGTA	GT	10
2099 2100	(2) INFO	RMATION FOR SEQ ID NO:12:	
2101			
2102	(i)	SEQUENCE CHARACTERISTICS:	
2103 2104		(A) LENGTH: 42 base pairs(B) TYPE: nucleic acid	
2104		(C) STRANDEDNESS: single	
2105		(D) TOPOLOGY: linear	
2107		(b) Totobodi. Hilledi	
2108			
2109	(vii)	IMMEDIATE SOURCE:	
2110		(B) CLONE: ZC6632	
2111			
2112			
2113	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:12:	
2114			
2115	CGACGCGG	AT CCTACGTACC TGCAGCCATG TTTTCCATGA GG	42
2116	(2) TNEO	DWARTON FOR ORD ID NO 12	
2117 2118	(2) INFO	RMATION FOR SEQ ID NO:13:	
2110	(1)	SEQUENCE CHARACTERISTICS:	
2120	(1)	(A) LENGTH: 21 base pairs	
2121		(B) TYPE: nucleic acid	
2122		(C) STRANDEDNESS: single	
2123		(D) TOPOLOGY: linear	
2124		(-,	
2125			
2126	(vii)	IMMEDIATE SOURCE:	
2127		(B) CLONE: ZC6627	
2128			
2129			
2130	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:13:	
2131			
2132	AGGGCTTC	GG CAAGCTTCAG G	21
2133	(2) THEO	DWARTON FOR GEO. ID NO. 14	
2134 2135	(Z) INFO	RMATION FOR SEQ ID NO:14:	
2135	(3)	SEQUENCE CHARACTERISTICS:	
2136	(1)	(A) LENGTH: 24 base pairs	
2138		(B) TYPE: nucleic acid	
2139		(C) STRANDEDNESS: single	
2140		(D) TOPOLOGY: linear	
2141			
2142			

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2143 2144 2145 2146	(vii) IMMEDIATE SOURCE: (B) CLONE: ZC6521	
2147 2148	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
2149 2150	GCCAAAGACT TACTTCCCTC TAGA	24
2151		
2152	(2) INFORMATION FOR SEQ ID NO:15:	
2153		
2154	(i) SEQUENCE CHARACTERISTICS:	
2155	(A) LENGTH: 30 base pairs	
2156	(B) TYPE: nucleic acid	
2157	(C) STRANDEDNESS: single	
2158	(D) TOPOLOGY: linear	
2159 2160		
2160	(vii) IMMEDIATE SOURCE:	
2162	(VII) IMMEDIATE SOURCE: (B) CLONE: ZC6520	
2163	(b) Cholin. 200320	
2164		
2165	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
2166		
2167	GCATGAACGT CGCGTGGTGG TTGTGCTACC	30
2168		
2169	(2) INFORMATION FOR SEQ ID NO:16:	
2170		
2171	(i) SEQUENCE CHARACTERISTICS:	
2172 2173	(A) LENGTH: 30 base pairs	
2173	(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
2175	(D) TOPOLOGY: linear	
2176	(b) Torollogi. Timeat	
2177		
2178	(vii) IMMEDIATE SOURCE:	
2179	(B) CLONE: ZC6519	
2180		
2181		
2182	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
2183		
2184	ACCACGCGAC GTTCATGCTC TAAAACCGTT	30
2185 2186	(2) INFORMATION FOR SEC ID NO.17.	
2186	(2) INFORMATION FOR SEQ ID NO:17:	
2187	(i) SEQUENCE CHARACTERISTICS:	
2189	(A) LENGTH: 36 base pairs	
2190	(B) TYPE: nucleic acid	
2191	(C) STRANDEDNESS: single	
2192	(D) TOPOLOGY: linear	
2193		

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2194 2195 2196 2197 2198	(vii)	IMMEDIATE SOURCE: (B) CLONE: ZC6518	
2199 2200	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:17:	
2201	GCTGCGGG	AT CCTACGTACT AGGGGGACAG GGAAGG	36
2202			
2203	(2) INFO	RMATION FOR SEQ ID NO:18:	
2204			
2205	(1)	SEQUENCE CHARACTERISTICS:	
2206 2207		(A) LENGTH: 45 base pairs	
2207		(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
2209		(D) TOPOLOGY: linear	
2210		(b) Toronodi. Timear	
2211			
2212	(vii)	IMMEDIATE SOURCE:	
2213		(B) CLONE: ZC6629	
2214			
2215			
2216	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:18:	
2217			
2218	CGACGCGA	AT TCTACGTACC TGCAGCCATG AAAAGGATGG TTTCT	45
2219	(2) TATEO	DWARTON FOR ORD TR NO 10	
2220 2221	(2) INFOR	RMATION FOR SEQ ID NO:19:	
2221	(;)	SEQUENCE CHARACTERISTICS:	
2223	(1)	(A) LENGTH: 45 base pairs	
2224		(B) TYPE: nucleic acid	
2225		(C) STRANDEDNESS: single	
2226		(D) TOPOLOGY: linear	
2227			
2228			
2229	(vii)	IMMEDIATE SOURCE:	
2230		(B) CLONE: ZC6630	
2231			
2232	(-	CHONENCE PROGREDATON CRO ID NO 10	
2233 2234	(X1)	SEQUENCE DESCRIPTION: SEQ ID NO:19:	
2234	CGACGCGA7	AT TCTACGTACC TGCAGCCATG AAACATCTAT TATTG	45
2236	COACGCGA	AI ICIACOIACC IOCACCAIG AMACAICIAI IAIIG	4 J
2237			
2238	(2) INFO	RMATION FOR SEQ ID NO:20:	
2239		-	
2240	(i)	SEQUENCE CHARACTERISTICS:	
2241		(A) LENGTH: 21 base pairs	
2242		(B) TYPE: nucleic acid	
2243		(C) STRANDEDNESS: single	
2244		(D) TOPOLOGY: linear	

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2245 2246 2247 2248 2249	(vii) IMMEDIATE SOURCE: (B) CLONE: ZC6625	
2250 2251 2252	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
2253	GTGAGATTTT CAGATCTTGT C	21
2254 2255 2256	(2) INFORMATION FOR SEQ ID NO:21:	
2257 2258 2259 2260 2261 2262 2263	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
2264 2265 2266 2267	(vii) IMMEDIATE SOURCE: (B) CLONE: ZC6626	
2268	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
2269 2270	AAGAATTACT GTGGCCTACC A	21
2271 2272	(2) INFORMATION FOR SEQ ID NO:22:	
2273 2274 2275 2276 2277 2278 2279 2280	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
2281 2282 2283 2284 2285	(vii) IMMEDIATE SOURCE: (B) CLONE: ZC6624	
2286	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
2287 2288	GCTGCGGAAT TCTACGTACT ATTGCTGTGG GAA	33
2289 2290	(2) INFORMATION FOR SEQ ID NO:23:	
2291 2292 2293 2294 2295	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 45 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	

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2296 2297	(D) TOPOLOGY: linear	
2298 2299 2300	(vii) IMMEDIATE SOURCE: (B) CLONE: ZC6514	
2301 2302		
2303 2304	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
2305 2306	CGACGCGGAT CCTACGTACC TGCAGCCATG AGTTGGTCCT TGCAC	45
2307 2308	(2) INFORMATION FOR SEQ ID NO:24:	
2309 2310 2311 2312 2313 2314	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
2315 2316	(vii) IMMEDIATE SOURCE:	
2317 2318 2319	(B) CLONE: zc6517	
2320 2321	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
2322 2322 2323 2324	GTCTCTGGTA GCAACATACT A	21
2325 2326	(2) INFORMATION FOR SEQ ID NO:25:	
2327 2328 2329 2330 2331 2332	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
2333 2334 2335 2336 2337	(vii) IMMEDIATE SOURCE: (B) CLONE: zc6516	
2338	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
2339 2340	GGGTTTCTAG CCCTACTAGT AG	22
2341 2342	(2) INFORMATION FOR SEQ ID NO:26:	
2343 2344 2345 2346	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 22 base pairs(B) TYPE: nucleic acid	

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2347	(C) STRANDEDNESS: single	
2348	(D) TOPOLOGY: linear	
2349		
2350		
2351	(vii) IMMEDIATE SOURCE:	
2352	(B) CLONE: zc6515	
2353		
2354		
2355	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
2356		
2357	GGGTTTCTAG CCCTACTAGT AG	22
2358		
2359		
2360	(2) INFORMATION FOR SEQ ID NO:27:	
2361		
2362	(i) SEQUENCE CHARACTERISTICS:	
2363	(A) LENGTH: 47 base pairs	
2364	(B) TYPE: nucleic acid	
2365	(C) STRANDEDNESS: single	
2366	(D) TOPOLOGY: linear	
2367		
2368		
2369		
2370	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
2371		
2372	AAGCTACGCG TCGATCGTCT AGAGTATATC GTCGACGCGT CGATCGG	47
2373		
2374	\cdot	

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/206,176

DATE: 03/23/94 TIME: 15:05:24

INPUT SET: S2548.raw

Line

Error

Original Text

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SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/08/206,176

DATE: 03/23/94 TIME: 15:05:24

INPUT SET: S2548.raw

APPLICATION NUMBER FILING DATE PRIOR APPLICATION DATA

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/08/206,176

DATE: 03/23/94 TIME: 15:05:25

INPUT SET: S2548.raw

Line

Original Text

Corrected Text